NAVIGATION SYSTEM

Preparation
See page 4 for specific information.

Immediate use
See page 4 for specific information.

Advanced use
See page 5 for specific information.

If necessary
See page 5 for specific information.

Audio System
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Before Use

Getting started

Routing

Address Book

Voice Recognition

Volume Adjustment

If necessary

Audio Operation

Bluetooth Hands-Free

Steering Switch

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Before Use

Accessories

Please contact an Authorized Mazda Dealer if you are missing any of the following accessories.

- Map Disc
- Owner's Manual

CAUTION:
THIS PRODUCT IS A CLASS I LASER PRODUCT. HOWEVER THIS PRODUCT USES A VISIBLE/INVISIBLE LASER BEAM WHICH COULD CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED.
BE SURE TO OPERATE THIS PRODUCT CORRECTLY AS INSTRUCTED.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

Laser products:
Wave length: 650 nm
Laser power: No hazardous radiation is emitted with safety protection.

MEMO

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Safety Information

■ Read this owner's manual for your Navigation System carefully before using the system.
It contains instructions about how to use the system in a safe and effective manner.
Mazda assumes no responsibility for any problems resulting from failure to observe the instructions given in this manual.

■ This manual uses pictographs to show you how to use the product safely and to alert you to potential dangers resulting from improper connections and operation. The meanings of the pictographs are explained below. It is important that you fully understand the pictographs and explanations in order to use this manual and the system properly.

Warning	**Warning**	The presence of this Warning symbol in the text is intended to alert you to the importance of heeding the operation instructions. Failure to heed the instructions may result in severe injury or death.

Warnings

■ **Do not keep your eyes fixed on the monitor screen or operate the system while driving.**
Do not change the settings and destination locations while driving. Minimize the time spent on viewing the monitor screen and listening to the voice guidance while driving. Operating the system will distract the driver from looking ahead of the vehicle and can cause accidents. Always stop the vehicle in a safe location and use the parking brake before operating the system.

■ **Always obey local traffic regulations.**
Your guided route may include roads that are not open to vehicles or are closed due to traffic regulations. Comply with the local traffic regulations and take another route.

■ **Do not use the unit when it is out of order.**
If the unit is out of order (no image, no sound) or in an abnormal state (has foreign matter in it, is exposed to water, is smoking, or smells), then turn it off immediately and consult with an Expert dealer, we recommend an Authorized Mazda Dealer. Using the unit in an out-of-order condition may lead to accidents, fires, or electric shocks.

■ **Use the proper power supply.**
This product is designed for operation with a negative grounded 12 V DC battery system.

■ **Do not disassemble.**
Do not disassemble the product or attempt to repair it yourself. If the product needs to be repaired, take it to an Authorized dealer, we recommend an Authorized Mazda Dealer.

Caution	The presence of this Caution symbol in the text is intended to alert you to the importance of heeding the operation instructions. Failure to heed the instructions may result in injury or material damage.

Cautions

- **Do not use the product where it is exposed to water, moisture, or dust.**
  Exposure to water, moisture, or dust may lead to smoke, fire, or other damage to the unit. Make especially sure that the unit does not get wet in car washes or on rainy days.
- **Keep the voice guidance volume at an appropriate level.**
  Keep the volume level low enough to be aware of road and traffic conditions while driving.
- **Protect the Deck Mechanism.**
  Do not insert any foreign objects into the slot of this unit.
- **This navigation system is designed exclusively for use in automobiles.**
  This navigation system should only be installed in an automobile. Do not install it in a ship, aircraft, or any other vehicles except an automobile. Do not use it detached from the vehicle.
- **Do not insert or allow your hand or fingers to be caught in the unit.**
  To prevent injury, do not get your hand or fingers caught in moving parts or in the disc slot. Especially watch out for infants.

Operation is subject to the following two conditions;
(1) this device may not cause interference, and
(2) this device must accept any interference,
including interference that may cause undesired operation of the device.

Introduction

Use This Product Safety

■ **Extremely low or high temperatures may interfere with normal operation**

The inside of the vehicle can become very hot or cold when it is parked for extended periods in direct sunlight or in cold places with the engine turned off. The navigation system may not operate normally under such circumstances. Turn off the navigation system until the inside of the vehicle has cooled down or warmed up. If the system does not operate thereafter, consult an Authorized Dealer, we recommend an Authorized Mazda Dealer.

Navigation System

This navigation system utilizes GPS* satellite signals, a speed sensor and gyrosensor to track and display your vehicle's current position, and to guide you from your starting point to your destination along a calculated route.

* : GPS (Global Positioning System) is a position detecting system utilizing the signals from GPS satellites deployed by the U.S. Defense Department.

Beep sound and voice guidance restrictions while using Bluetooth Hands-Free

The beep sound and voice guidance related to the navigation system operation are not heard while a Bluetooth Hands-Free is being used.

Screens

Screens displayed in this manual may differ from those on the actual display.

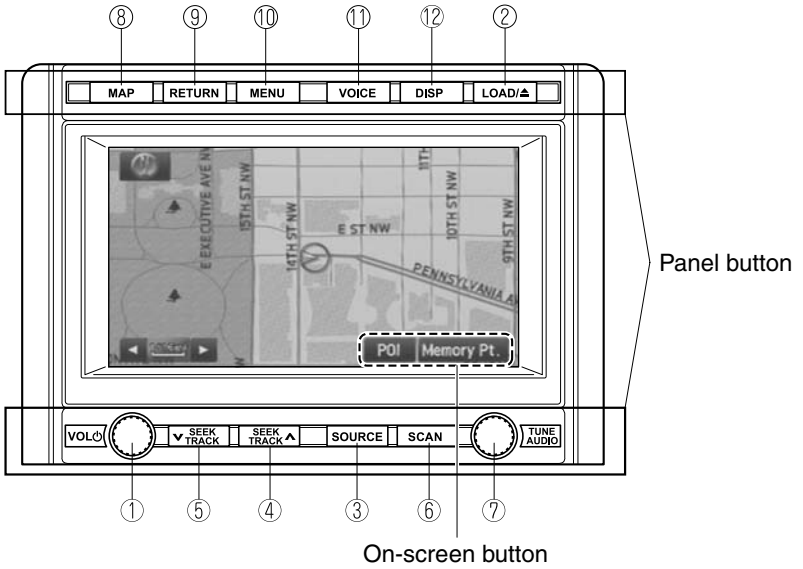
LCD (Liquid crystal display)

Direct sunlight or other outside light sources makes it difficult to view the images on the display. For moonroof-equipped vehicles, close the sunshade to better view the display.

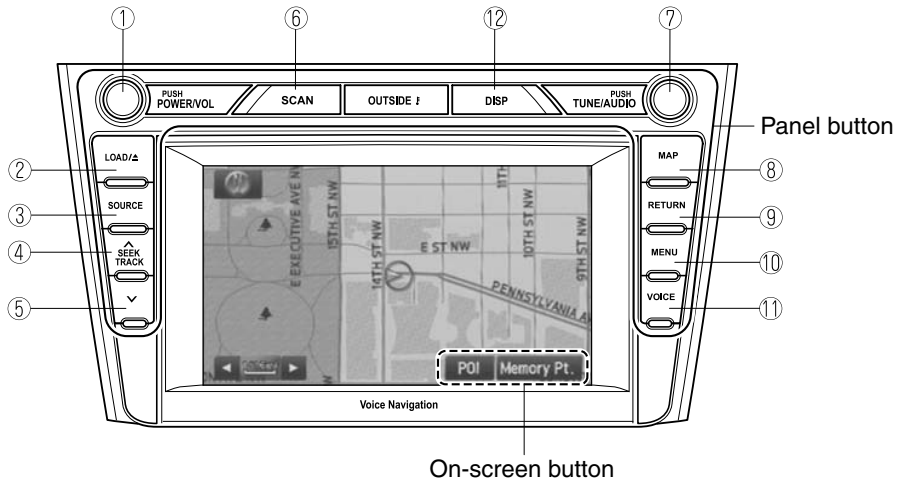
Names and Functions

The navigation system can be operated by pressing a button on the panel (panel button) or selecting a button displayed on the screen (on-screen button).

Mazda5



Mazda RX-8



① POWER/VOLUME dial: Turns the audio unit off when pressed. Adjust the volume when turned.

② LOAD/EJECT button: CD loading and ejection. If the display is left in the lowered position for a certain period of time, a beep sound is heard and the display closes automatically.

③ SOURCE button: Changes the audio source.

- and on-screen buttons : FM/AM broadcast reception.
- on-screen button : CD mode
- on-screen button : Satellite radio
- and on-screen buttons : Image and Sound playback is possible using a portable audio player connected to an external input terminal.[*1]
  Sound playback is possible using an audio player connected to an external input terminal.[*1]
  AUX1: External sound
  AUX2: External image & sound (if equipped)
- on-screen button: iPod mode

④ SEEK/TRACK up button: Performs tuning (short press) and searching (long press) in

⑤ SEEK/TRACK down button: FM/AM mode. Performs track skip (short press) and fast-forward/reverse (long press) in CD mode.

⑥ SCAN button: Performs scanning operation in FM / AM, CD and Satellite radio modes.

⑦ TUNE dial: Switches the audio display screen on or off when pressed. Changes the radio station frequency when turned.

⑧ MAP button[*2] : Displays a map of the current location while in navigation mode.

⑨ RETURN button[*2] : Returns the system to the previous navigation screen.

⑩ MENU button[*2] : Displays the Menu screen (various settings).

⑪ VOICE button: Replays a voice navigation assist from the navigation system.

⑫ DISP button: Displays the brightness/contrast mode selection and adjustment screen.

[*1] :The external input terminal is not equipped on your vehicle because it is not standard equipment.
[*2] : For navigation unit operation

Note

- If there is no response after selecting the on-screen button, remove your finger from the screen and select it again.
- On-screen buttons that cannot be operated are not illuminated.

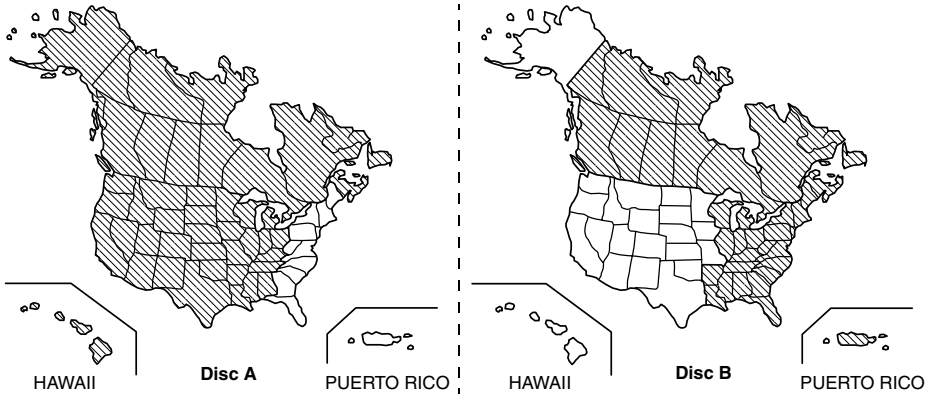
Select the on-screen button lightly with your finger.
Selecting the on-screen buttons using objects that have a hard or sharp end such as a ball point pen or mechanical pencil could cause a malfunction.

Activation

Insert the map disc into the unit to start the Mobile Navigation System.

■ Data coverage area of map disc

Regarding the data coverage area, refer to the case of the navigation map disc.



The following function data are recorded in each area disc.

- Point of Interest search
- Address search
- Intersection search
- Freeway On Ramp / Off Ramp search
- Phone Number search

Cautions

■ Map Disc

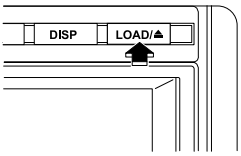
- Refer to “Handling and Care of Map Discs” to know how to handle a map disc (☞ page 63).

Note

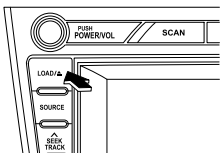
- The map disc cannot be inserted or ejected while the ignition switch is in the OFF position.
- Remember that the battery can run down if the ignition switch is kept in the ACC or ON position for a long time while the engine is not running.

1 Switch the ignition to ACC or ON and press [LOAD / ⏏].

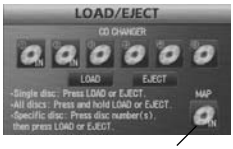
Mazda5



Mazda RX-8

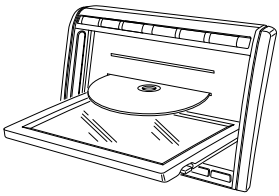


2 Select the MAP on-screen button to open the display.



MAP on-screen button

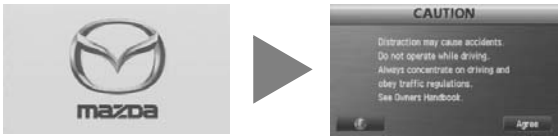
3 Insert the map disc with the printed side facing up.



The figure is an example showing Mazda5.

Note

- Condensation may form on the optical lens or the map disc inside the unit when the temperature in the vehicle increases in a short time such as when heating the car on a cold day. This condensation may cause malfunctions. If so, unload the map disc and do not operate the unit for approximately 1 hour. Wipe the condensation off the map disc with a soft cloth. If the unit does not operate correctly after 1 hour, consult an Authorised Mazda Dealer.



(CAUTION) screen

Note

- When the ignition switch is in the ACC or ON position, the screen changes as shown above to activate the navigation system.
- The screen (audio or navigation) that was displayed prior to the engine being turned off is displayed. Before the navigation screen is displayed, the CAUTION screen will be displayed.

4 Read the CAUTION carefully, and select the Agree on-screen button.

Caution

Most functions are inhibited while the vehicle is in motion.
Please read the handbook for operation instructions.
Always obey traffic regulations.

●The Current Position screen appears.

Note

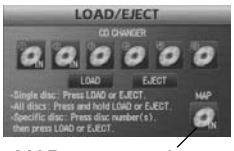
●You can select the language by selecting the on-screen button. You can also change the selected language using Language Selection. (☞ page 20)

●The CAUTION screen remains on the display unless you select the Agree on-screen button.

If the mobile telephone is programmed to the hands-free unit for use with the Bluetooth hands-free telephone, the Bluetooth hands-free information is displayed on the screen momentarily. While this information is displayed, the Agree on-screen button cannot be selected. Select the Agree on-screen button after the display is cleared.

Removing the Map Disc

Press the LOAD / ⏏ and MAP on-screen button with the ignition switch in the ACC position.



MAP on-screen button

Caution

Do not get your hand or fingers caught in moving parts or in the disc slot. This can cause injuries. Children are inquisitive, try to install or remove the map disc without infants looking on.

On-screen Buttons

Select the on-screen button lightly with your finger.
Colors for unavailable buttons will be pale.

Menu

Menu appears when pressing MENU.

Destination Entry and Route Search (☞ page 30)
Address Book (☞ page 46)
Cancel Guidance (☞ page 41)
Route Options (☞ page 42)
Volume (☞ page 55)
Set Clock (☞ page 15)

Navigation Set Up (☞ page 16)

Set Clock

The current time is set using this function. Since time notification is provided by a GPS satellite.

Before Steps MENU → select Set Clock

Open the [SET CLOCK] screen

Select 24H if you prefer 24-hour display; 12H for 12-hour display.

Select +30 min to move the setting ahead by 30 minutes, and similarly, select -30 min to move it back by 30 minutes.
How to exit OK.

Note

Minutes and seconds are adjusted by the GPS, however, it is necessary to adjust hours under the following conditions:

- Driving across different time zones
- Daylight saving time start and end

Navigation Set Up

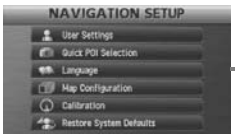
●You can alter the map display conditions, the route guidance conditions and show the system information.

Warning

■ **Stop your vehicle before the following operations.**
Do not change the settings and destination locations while driving. Minimize the time spent viewing the monitor screen and listening to the voice guidance while driving. Operating the system will distract the driver from looking ahead of the vehicle and may cause an accident.
Always stop the vehicle in a safe location and put the parking brake on before operating the system.

Before Steps MENU → select Navigation Setup

Open [NAVIGATION SETUP]



- User Settings (☞ page 17)
- Quick POI Selection (☞ page 19)
- Language (☞ page 20)
- Map Configuration (☞ page 21)
- Calibration (☞ page 22)
- Restore System Defaults (☞ page 24)

Navigation Set Up

User Setting

Before Steps

MENU → select Navigation Setup

→ select User Settings

Open the [USER SETTINGS] screen

USER SETTINGS
Map Color 1 2 3
Map Mode Auto Day Night
Distance km Miles
Average Speed Change speed
Road Restriction Warnings On Off

■ Map Color

Map Color 1 2 3

Select a screen color from the 1 to 3 options.

■ MAP Mode

Map Mode Auto Day Night

- Auto : The display will automatically switch between Day and Night illumination mode when the headlights are turned off and on respectively.
- Day : The display will be presented in Day illumination mode regardless of whether the headlights are on or off.
- Night : The display will be presented in Night illumination mode regardless of whether the headlights are on or off.

■ Distance

Distance km Miles

Select the distance unit from km or Miles.

■ Average speed

Average speed Change speed

Set the average speed for each road to be driven.
(This function sets the standard speed (average vehicle speed for each route) used for calculating the estimated arrival time when calculating the route time.)

◄:► Average speed setting

Default :Changes back to default

■ Road Restriction Warnings

Road Restriction Warnings On Off

The display of warnings during route guidance when passing through areas with traffic restrictions can be turned on or off.

Navigation Set Up

User Setting

Before Steps

MENU → select Navigation Setup

→ select User Settings

Open the [USER SETTINGS] screen

■ Arrival Time

The time which is displayed until reaching the destination or a way point can be set as an estimated arrival time or the remaining time.

Select to display the estimated arrival time, or to display the remaining time.

■ Keyboard layout

The layout of input keys can be selected as ABC or QWE.

■ Clock

Allows selection of whether clock is to be displayed.
When the time display setting is switched on in the "USER SETTINGS" screen on the navigation screen, the time will be displayed on the navigation, SETTINGS, SOUND, LOAD/EJECT, and DISPLAY MODE screens.
Even if the display of the clock on the navigation is not set, the clock on the information display remains displayed.

Navigation Set Up

Quick POI Selection

This function allows you set the categories on the area displayed when the (Point of Interest) menu is selected on the map. Quick POI enables you store up to six different kinds of categories which you use most regularly.

Before Steps

MENU → select Navigation Setup

→ select Quick POI Selection

Open the [QUICK POI SELECTION] screen

Select the button for Quick POI storage.

Note

●Select the category to be changed

Default : This button allows you to restore the factory settings.

Select a category.

Once selected, subcategories will be displayed.

List All Categories : Subcategories from all of the individual categories will be displayed together.

Select the subcategories to be displayed on the map.

Repeat the above steps to add further POI markers displayed on the menu.

Navigation Set Up

Language

You can change the language of the menu and the voice guidance.

Before Steps

MENU → select Navigation Setup

→ select Language

Open the [LANGUAGE] screen

Select your preferred language from the list.

: Select the language when using voice activate.
(☞ page 51)

Navigation Set Up

Map Configuration

Before Steps

MENU → select Navigation Setup

→ select Map Configuration

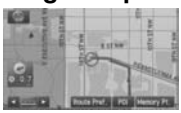
Open the [MAP CONFIGURATION] screen

■ MAP Screen

Map Screen

Select single, dual map display or compass screen.

Single map



Dual map

Compass screen

■ Turn Guidance

Turn Guidance

Turn Arrow (on first screen)

While using route guidance, the directions for the next junction where you have to turn are shown as Turn Arrow in the upper right.

Turn List

While using route guidance, the directions for the next junction where you have to turn are shown as Turn List.

Turn Arrow (on second screen)

While using route guidance, the directions for the next junction where you have to turn are shown as Turn Arrow.

Note

Before a fork in the road, an enlarged diagram of the junction automatically appears in a second screen.This is to make route guidance even clearer.

■ Intersection Detail

Intersection Detail On Off

Select whether the Enlarged Junction diagram screen is displayed automatically.

■ Freeway Information

Freeway Information On Off

Allows selection of whether the guidance screen is to be displayed while driving on a Freeway.

Navigation Set Up

Calibration

This function allows you to correct any error in the position or direction of your vehicle display.

Before Steps MENU → select Navigation Setup

Adjusting Current Position and Direction

select Position / Direction

Open the [Calibrate Position] screen

Move ○ to the correct position and select OK.

Use ◀ or ▶ to adjust the direction in which you are heading, and select OK.

Distance

This function automatically corrects any error in the display of the current position that might occur after tire replacement.

select Distance

You will have to drive about 6 miles (10 km) before distance correction is complete.

select Calibration

Map Version

The map and software version numbers can be confirmed using this function.

select Map Version

Map and software versions are now displayed.

Navigation Set Up

Restore System Defaults

This function replaces all the settings in the mobile navigation system with the initial default settings.

Before Steps

MENU → select Navigation Setup

→ select Restore System Defaults

Open the [SYSTEM DEFAULTS] screen

Select OK **.**

If you execute Restore System Defaults, all of your stored setting data will be deleted.

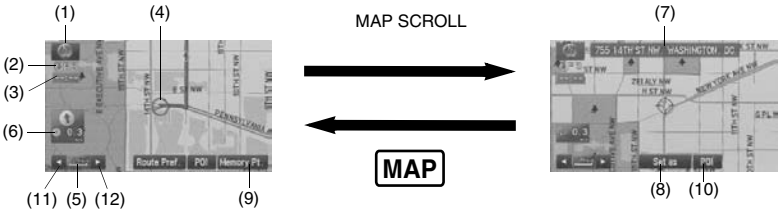
[Default List]

Item	Initial condition
USER SETTING	
Map Colour	1
MAP Mode	Auto
Distance	Miles
Average speed (Urban road)	20 MPH(30 KPH)
Average speed (Country road)	40 MPH(60 KPH)
Average speed (Freeway)	60 MPH(100 KPH)
Notify traffic restriction	On
Arrival Time	Time
Keyboard layout	ABC
Clock	On
QUICK-POI SELECTION	
Quick-POI Selection	A : Gas station B : ATM C : Police Station D : Grocery store E : All Restaurant F : Hotel
LANGUAGE	
Display guidance language	English
VOICE RECOGNITION	
Speech recognition Language	English
MAP CONFIGURATION	
Map Screen	Single-screen display
Turn Guidance Screen	Turn List Mode
Intersection Detail	On
Freeway Information	Off
SET CLOCK	Display type 24h (Mazda5) Display type 12h (Mazda RX-8)

Item	Initial condition
ROUTE PREFERENCES	
Allow Toll Road	Avoid
Allow Major roads	Prefer
Allow Ferry	Avoid
Allow Restricted Road	Avoid
Border Crossing	Prefer

Screen Names and Functions

Screens Before Setting Route



(1) Map Orientation control
(☞ page 28)

(2) GPS (Global Positioning System) marker
(☞ page 57)

(3) Clock
Clock will be displayed when you set up Clock on Navigation Set Up On.

(4) Vehicle marker
Shows the current position and direction of your vehicle.

(5) Scale display
Displays the scale of the map.

(6) Distance from current position
Displays the distance from the current position to the position pointed by ○.

(7) Current Road Name
Shows the name of the road you are currently driving on.

(8) Set Destination button
The position indicated by the mark "○" in the scroll map is used as destination, memory point or way point.

(9) Store Memory Point button
Stores markers on the map.

(10) POI (Point of Interest) Display button
(☞ page 38)

(11) Zoom in
(☞ page 28)

(12) Zoom out
(☞ page 28)

Screens During Route Guidance

(1) Distance and Time to Destination display
Displays the time* and distance to the destination or way point.
Selecting this will display the next and further information on the way point or time and distance to the destination.
(* Either required time or estimated time arrival)

(2) Route display
Shows the provided route as a thick blue line.

(3) Turn Arrow display
Shows the direction to turn at the next junction and the distance to the junction.

(4) Route Preferences button
(☞ page 42)

Screen adjustments, beep alert and other settings

Display menu screen will be shown when you press the disp button (DISP).
Press the disp button (DISP) to display the display menu.

■ Adjusting the screen quality

- Screen brightness
  Press the + on-screen button to brighten the screen, or − to darken.
- Screen contrast
  Press the + on-screen button to increase contrast, − to decrease.

Note

- Select the RESET on-screen button to restore the adjustment values to the default settings.
- The screen changes to SETTINGS when the SETTINGS on-screen button is selected.

■ Turning off the display

Select the DISP OFF on-screen button to turn off the display.
Press the MAP or MENU button to turn on the display.
Press the RETURN button to return to the display previously shown.

■ Tilt display operation

Select the on-screen button to tilt the display, to close it.
The display angle can be adjusted in five stages.
When opening, the display angle changes one stage at a time each time the on-screen button is pressed.
When closing, the display angle changes one stage at a time each time the on-screen button is pressed.

■ Daytime/Night screen

When the headlights are on, daytime mode can also be selected (if a brighter screen is needed at night). This selection can only be done when the headlights are on.

- To cancel the illumination dimmer, rotate the thumb wheel upward fully. You may hear a click sound and the illumination dimmer will be canceled. (Mazda RX-8)

Press the disp button (DISP) followed by the SETTINGS on-screen button to display the settings menu.

■Returning to the navigation screen from the audio unit screen

- Select the MANUAL on-screen button to set the function to return to the navigation screen from the audio unit screen by operation of the button only.
- Select the AUTO on-screen button to set the function to return to the navigation screen from the audio unit screen automatically after 20 seconds.

■Beep sound settings

- Select the ON on-screen button to activate the operation beep sound.
- Select the OFF on-screen button to deactivate the operation beep sound.

Screen change

Warning

■ **Do not keep your eyes fixed on the monitor screen or operate the system while driving**

Do not change the settings and destination locations while driving. Minimize the time spent viewing the monitor screen and listening to the voice guidance while driving. Operating the system will distract the driver from looking ahead of the vehicle and may cause an accident. Always stop the vehicle in a safe location and use the parking brake before operating the system.

Map orientation

1 **Select , on-screen button.**

●North Up: Geographic north is up.

●Head Up: The direction you are heading is up.

Map scale

1 **Select ◄ or ► on-screen button.**

●The map can be displayed in 14 steps with scales from to .

<Scale bar>

Miles display	1/32 mi (mile)	1/4 mi (mile)	2 mi (mile)	16 mi (mile)	128 mi (mile)
Metric display	50 m	500 m	4 km	32 km	256 km

●ZOOM OUT

●ZOOM IN (more detail.)

MEMO

Destination Entry and Route Search

●You can set the destination using various methods provided by the system.

Before Steps MENU → select Destination Entry

Change (Change Search Area)

Open the [DESTINATION ENTRY] Menu

→ **Select** Change

Warnings

- **Do not keep your eyes fixed on the monitor screen or operate the system while driving.** Do not change the settings and destination locations while driving. Minimize the time spent viewing the monitor screen and listening to the voice guidance while driving. Operating the system will distract the driver from looking ahead of the vehicle and may cause an accident. Always stop the vehicle in a safe location before operating the system.
- Route searches with the navigation system can include roads that you cannot drive on and roads that you are prohibited from driving on due to traffic regulations. Please comply with the traffic regulations.

Select the desired Search Area

AL : ALABAMA
AZ : ARIZONA
AR : ARKANSAS
CA : CALIFORNIA
CO : COLORADO
CT : CONNECTICUT
DE : DELAWARE
FL : FLORIDA
GA : GEORGIA
ID : IDAHO
IL : ILLINOIS
IN : INDIANA
IA : IOWA
KS : KANSAS
KY : KENTUCKY
LA : LOUISIANA
ME : MAINE
MD : MARYLAND
MA : MASSACHUSETTS
MI : MICHIGAN
MN : MINNESOTA
MS : MISSISSIPPI
MO : MISSOURI
MT : MONTANA
NE : NEBRASKA
NV : NEVADA
NH : NEW HAMPSHIRE
NJ : NEW JERSEY
NM : NEW MEXICO
NY : NEW YORK
NC : NORTH CAROLINA
ND : NORTH DAKOTA
OH : OHIO
OK : OKLAHOMA
OR : OREGON
PA : PENNSYLVANIA
RI : RHODE ISLAND
SC : SOUTH CAROLINA
SD : SOUTH DAKOTA
TN : TENNESSEE
TX : TEXAS
UT : UTAH
VT : VERMONT
VA : VIRGINIA
WA : WASHINGTON
WV : WEST VIRGINIA
WI : WISCONSIN
WY : WYOMING
DC : WASHINGTON, D.C.
AB : ALBERTA
ON : ONTARIO
QC : QUEBEC
SK : SASKATCHEWAN
NL : NEWFOUNDLAND AND LABRADOR
NB : NEW BRUNSWICK
NS : NOVA SCOTIA
NU : NUNAVUT
BC : BRITISH COLUMBIA
PE : PRINCE EDWARD ISLAND
MB : MANITOBA
NT : NORTHWEST TERRITORIES
YT : YUKON
AK : ALASKA
HI : HAWAII
PR : PUERTO RICO
VI : VIRGIN ISLANDS OF THE U.S

The information for these countries and regions is recorded on a separate media.

For Character Entry, please refer to page 39.

Destination Entry and Route Search

Address

Open the [DESTINATION ENTRY] Menu

Select

Address

When narrowing down to city name

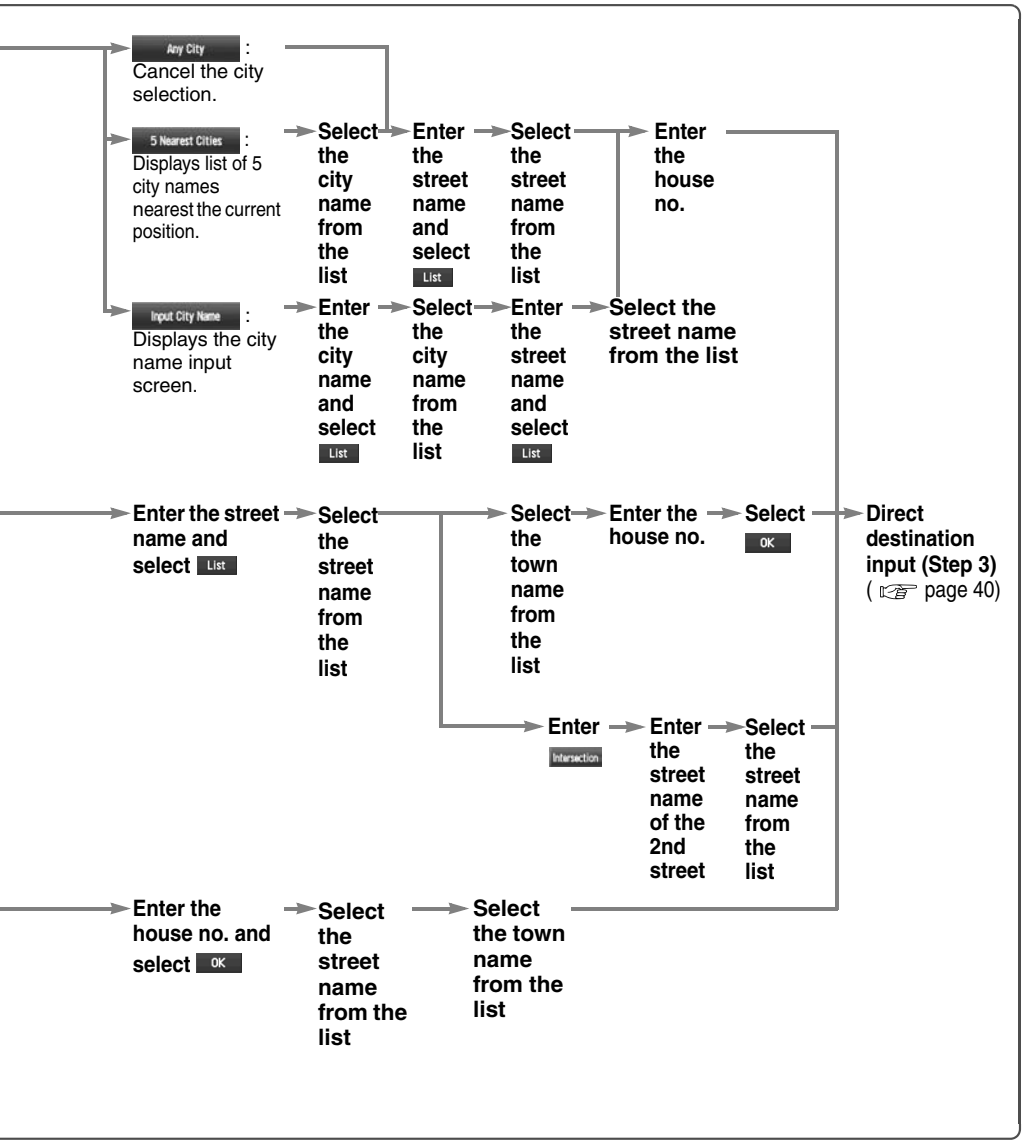
Select City

When narrowing down to street name

Select Street

When narrowing down to house no.

Select House No.


Any City : Cancel the city selection.
5 Nearest Cities : Displays list of 5 city names nearest the current position.
Select the city name from the list
Enter the street name and select List
Select the street name from the list
Enter the house no.
Input City Name : Displays the city name input screen.
Enter the city name and select List
Select the city name from the list
Enter the street name and select List
Select the street name from the list
Enter the street name and select List
Select the street name from the list
Select the town name from the list
Enter the house no.
Select OK
Direct destination input (Step 3) (page 40)
Enter Intersection
Enter the street name of the 2nd street
Select the street name from the list
Enter the house no. and select OK
Select the street name from the list
Select the town name from the list

● For Character Entry, please refer to page 39.

Destination Entry and Route Search

Point of interest

Open the [DESTINATION ENTRY] Menu

Select

Point of Interest

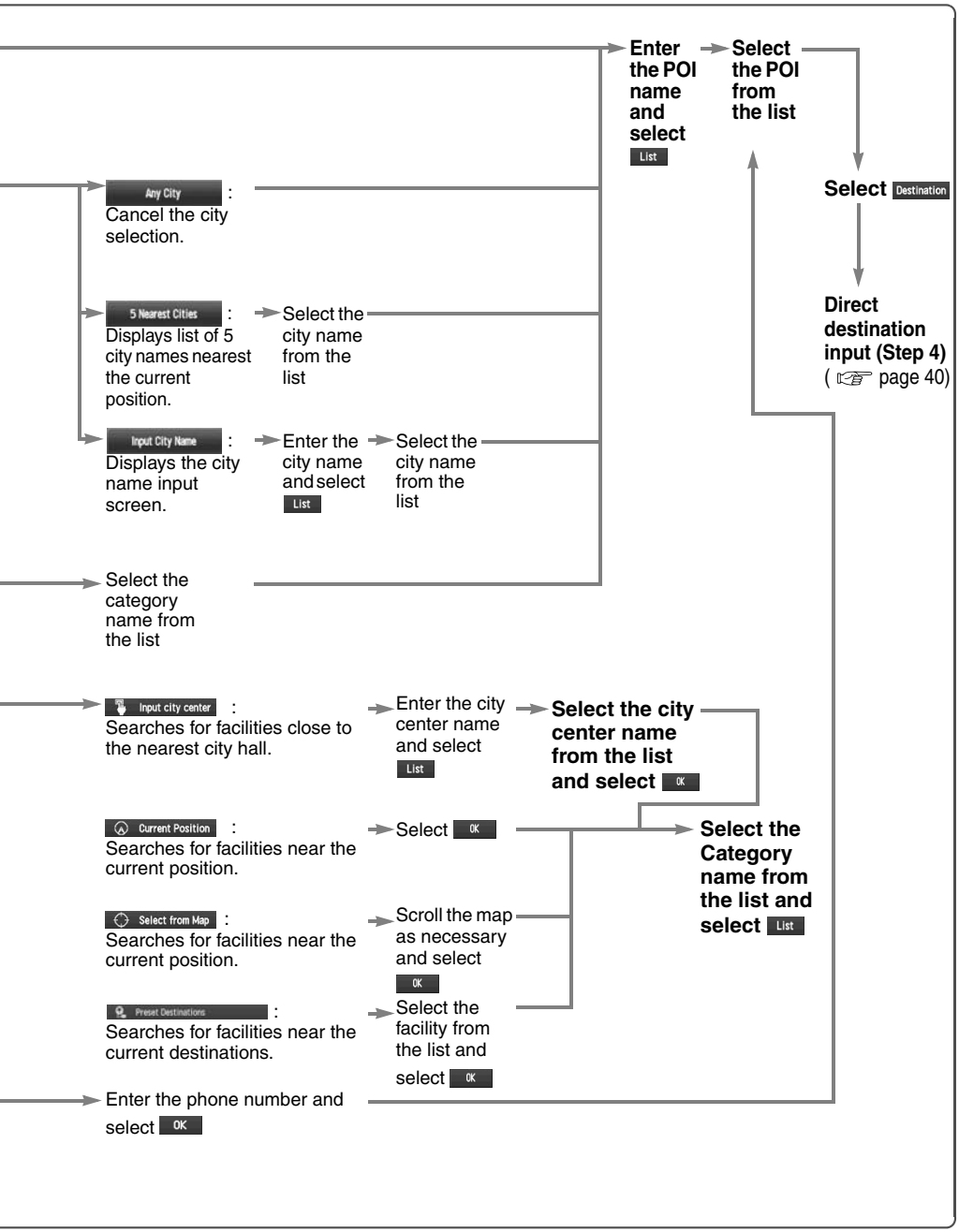
When entering the destination point directly
Select
Name

When narrowing down to city name
Select
City

When narrowing down to category name
Select
Category

When narrowing down to the nearest facility
Select
Nearest

When narrowing down to a phone number
Select
Phone Number


Enter the POI name and select List
Select the POI from the list
Select Destination
Direct destination input (Step 4) (☞ page 40)
Any City : Cancel the city selection.
5 Nearest Cities : Displays list of 5 city names nearest the current position.
Select the city name from the list
Input City Name : Displays the city name input screen.
Enter the city name and select List
Select the city name from the list
Select the category name from the list
Input city center : Searches for facilities close to the nearest city hall.
Enter the city center name and select List
Select the city center name from the list and select OK
Current Position : Searches for facilities near the current position.
Select OK
Select the Category name from the list and select List
Select from Map : Searches for facilities near the current position.
Scroll the map as necessary and select OK
Preset Destinations : Searches for facilities near the current destinations.
Select the facility from the list and select OK
Enter the phone number and select OK

● For Character Entry, please refer to page 39.

Destination Entry and Route Search

Before Steps MENU → select Destination Entry

Emergency

Select SOS Emergency

When stopped

Police Station
Displays the police station select screen.

Hospital
Displays the hospital select screen.

When driving

Nearby Police Station
Sets the destination to the nearest police station automatically.

Nearby Hospital
Sets the destination to the nearest hospital automatically.

Memory Point / Home / Preset Destination / Previous Destination / Freeway On/ Off Ramp / Coordinates / Select from map

Open the [DESTINATION ENTRY] Menu

Select Memory Point

MEMORY POINTS
Sort
1112 6TH ST NE, WASHINGT
1057 3RD ST NE, WASHINGT
858 5TH ST NE, WASHINGTO
658 I ST NE, WASHINGTON
831 3RD ST NE, WASHINGTO

Select Home

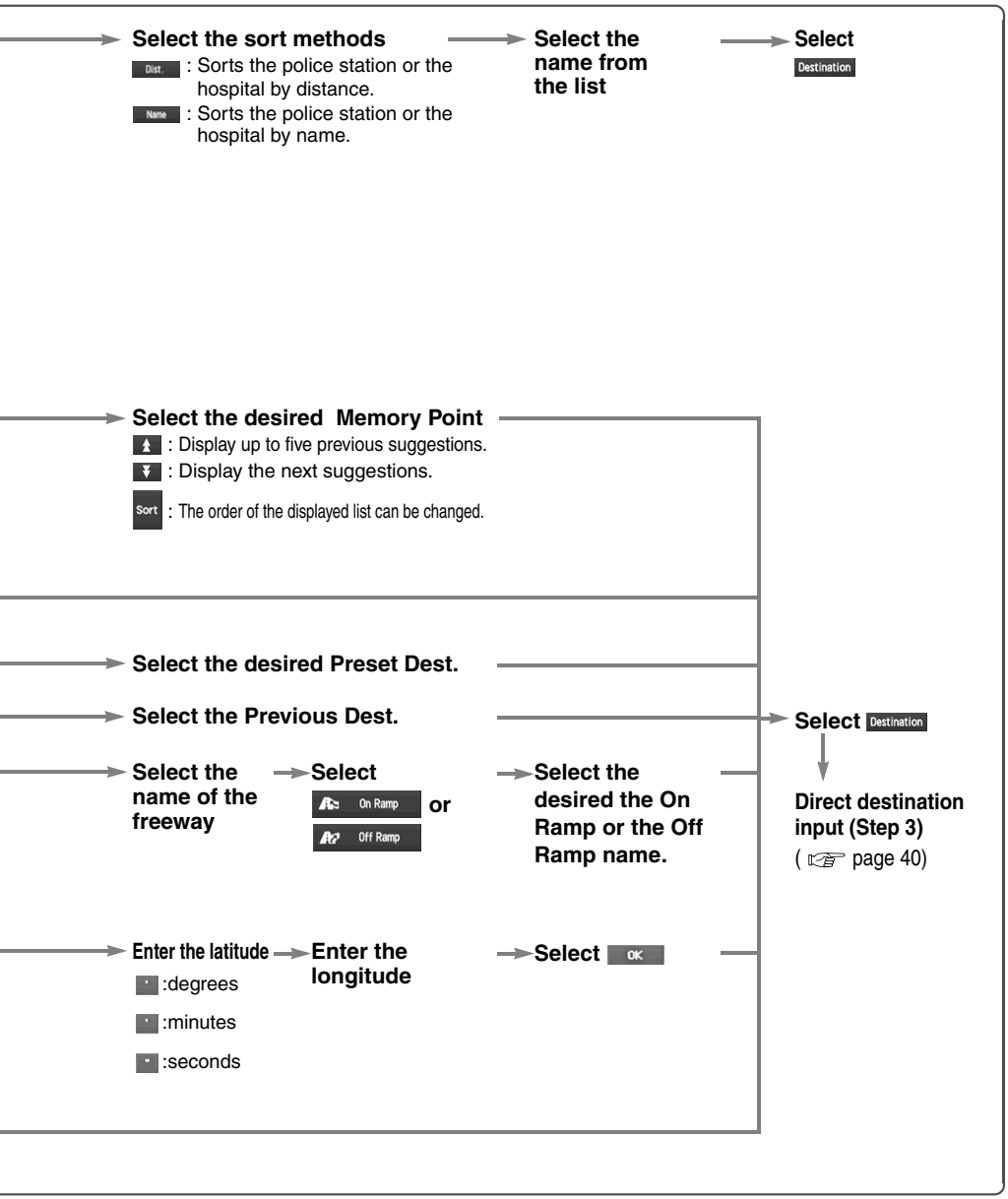
Select Preset Destinations

Select Previous Destinations

Select Freeway On Ramp / Off Ramp

Select Coordinates

Select Select from Map


Select the sort methods
Dist. : Sorts the police station or the hospital by distance.
Name : Sorts the police station or the hospital by name.
Select the name from the list
Select Destination
Select the desired Memory Point
: Display up to five previous suggestions.
: Display the next suggestions.
Sort : The order of the displayed list can be changed.
Select the desired Preset Dest.
Select the Previous Dest.
Select the name of the freeway
Select
On Ramp
Off Ramp
or
Select the desired the On Ramp or the Off Ramp name.
Select Destination
Direct destination input (Step 3)
(page 40)
Enter the latitude
:degrees
:minutes
:seconds
Enter the longitude
Select OK

● For Character Entry, please refer to page 39.

Quick POI

●You can select one of the Six Categories on the menu or List Categories and then select the POI (Point of Interest) to be displayed on the map.

Before Steps Select POI

Displaying POI(s) on a Map

Open the [QUICK POI]

Select the categories to be displayed up to a maximum of five. → Show

●POI icon chart (☞ page 41)

For categories other than the six displayed, select List Categories and select them from the list shown.

Local Search

Search Selected POI → **Select the POI you want to find from the listed facilities.**

After you make a selection, the point of interest you selected appears on the map.

Route: Search POI along the route during the guidance and show the list.

Deleting POI Markers

POI Off

Before Steps Displaying POI(s) on a Map (☞ above)

Showing POI Data

Display the POI.

→ **Select the desired POI by moving ◯ on top of the POI icon.**

The name of the selected POI appears.

If no data is stored for the selected POI, the POI name is not displayed.

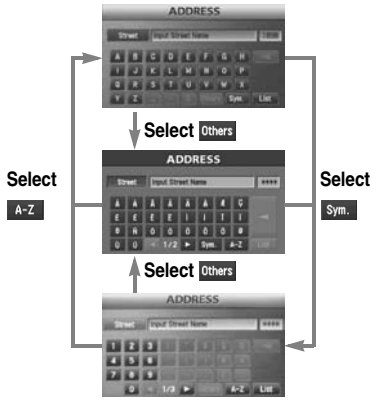
→ **Select Info. (Information)**

The POI(s) data is displayed.

Character Entry

Street name, town name, and other input

Select the first several characters on the screen. (Step 1)



◄ : Move the cursor to the previous position and delete a character.

List : The list appears.

Select your target in the list. (Step 2)

Names of which spelling starts with the entered character appear.

- If a desired name is not in the list, go back to Step 1, and try fewer characters.

▲ : Display up to five previous suggestions.

▼ : Display the next suggestions.

► : Text flow (Right)

◄ : Text flow (Left)

●Examples

Street: CANAL

Enter by selecting characters:

C A

Street: 52nd Ave.

Enter by selecting characters:

5 2 n d A

Street: MAIN STREET

Enter by selecting characters:

M A I N S

House phone number, and other input

Select the characters on the screen. → Select OK

◄ :Move the cursor to the previous position and delete a character.

Direct Destination Input

Direct Destination Input

1 **Touch the map to set the cursor to the desired destination.The map scrolls faster the further away the touched location is from the cursor.**

Scroll the map and change the map scale if necessary.

2 **Select** Set as

3 **Select** Destination**.**

Route calculation will be carried out and the entire route will be displayed on the map.

Select Way Point (Way point) to set the address as a way point on your route (☞ page 25). You can set up to 5 way-points per trip.

4 **Select** Guide**.**

Route guidance begins using displayed route.

Note

- If your desired route cannot be found, Route Opt. (Route Options) allows the route option settings to be changed. (☞ page 42)
- Selecting Guide for five seconds or more will launch the Demo mode.

Selecting Route

Operate after Step 3 of [Direct Destination Input]

4 The calculation route can be selected from one of three types namely, Quick (the fastest route), Short (the shortest route), or Altern (the standard route).

5 **Select** Info. **(Information).**

Details regarding the individual routes (i.e., required time, total distance, roads used, etc.)

Select either Quick**,** Altern.**, or** Short**, and then select** Guide **when you have decided on the route to be used.**

POI Icons on Maps / Delete Destination

■ POI (Point of Interest) Icons

The following are POI icons shown on maps.

Restaurant
- All restaurants
- American
- Chinese
- Continental
- Fast Food
- French
- Italian
- Japanese
- Mexican
- Other Restaurants
- Seafood
- Thai

Shopping
- Grocery Store
- Shopping Mall

Automotive
- Automobile Club
- Auto Service & Maintenance
- Gas Station
- Parking

Travel
- Airport
- Bus Station
- Ferry Terminal
- Hotel
- Rental Car Agency
- Rest Area
- Train Station

Recreation
- Amusement Park
- Casino
- Golf Course
- Historical Monument
- Marina
- Museum
- Performing Arts
- Ski Resort
- Sports Complex
- Tourist Attraction
- Tourist Information
- Winery

Community
- City Center
- Convention Center
- Court House
- Government Offices
- Hamlet
- Higher Education
- Hospital
- Library
- Park & Recreation
- Police station
- School

Banking
- ATM
- Bank

Other
- Business Facility

Delete destination

MENU → Select ⊘ Cancel Guidance → Select Yes

Route Options

●During route guidance you can change the route options, stop or check the route.

Before Steps MENU → select Route Options

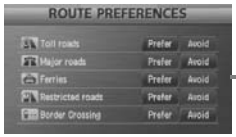
Routing

Route Preferences

Open the [ROUTE OPTIONS] Menu

Select

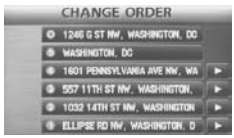
Route Preference



Modification of Destination or Way Point Positions

Select

Destination & Way Point


CHANGE ORDER
1246 G ST NW, WASHINGTON, DC
WASHINGTON, DC
1601 PENNSYLVANIA AVE NW, WA
557 11TH ST NW, WASHINGTON,
1032 14TH ST NW, WASHINGTON
ELLIPSE RD NW, WASHINGTON, D

Select the button for the location to be modified.

Select the way points to change the order.
Change the destination and the passing order of the destination and way points.

Deletion of Destination or Way Points

Select the button corresponding to the destination or way point to be deleted.

Detour

Select

Detour

Turn List

Select

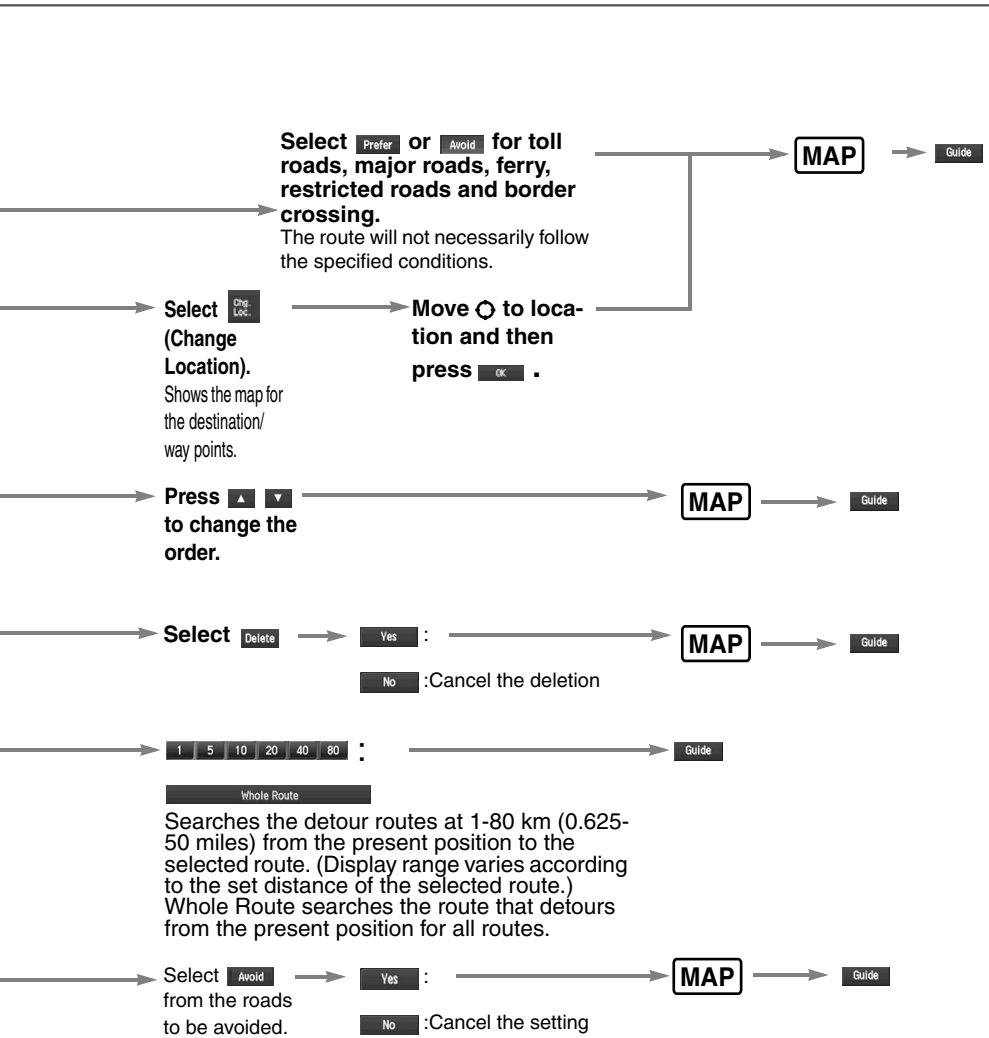
Turn List

The Enter Route screen appears.

Warning

■ **Do not keep your eyes fixed on the monitor screen or operate the system while driving**

Do not change the settings and destination locations while driving. Minimize the time spent viewing the monitor screen and listening to the voice guidance while driving. Operating the system will distract the driver from looking ahead of the vehicle and may cause an accident. Always stop the vehicle in a safe location and use the parking brake before operating the system.


Select Prefer or Avoid for toll roads, major roads, ferry, restricted roads and border crossing.
The route will not necessarily follow the specified conditions.
MAP
Guide
Select Chg. Loc. (Change Location).
Shows the map for the destination/ way points.
Move ○ to location and then press OK .
Press ▲ ▼ to change the order.
MAP
Guide
Select Delete
Yes :
No :Cancel the deletion
MAP
Guide
1 5 10 20 40 80 :
Guide
Whole Route
Searches the detour routes at 1-80 km (0.625-50 miles) from the present position to the selected route. (Display range varies according to the set distance of the selected route.)
Whole Route searches the route that detours from the present position for all routes.
Select Avoid from the roads to be avoided.
Yes :
No :Cancel the setting
MAP
Guide

Route Options

Before Steps MENU → select Route Options

Display Route

Open the [ROUTE OPTIONS] Menu

Select Display Route

Route Preview

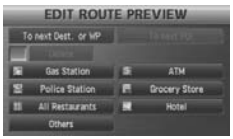
Select Route Preview

Setting the conditions for simulation run

Use the buttons displayed on screen to carry out a simulation run.

- : Move to the start point.
- : Carry out a simulation run in the direction of the start point. When the run has been started, this button will be displayed as , and when selected, it will cause it to take place at high speed.
- : Stop the simulation run.
- : Carry out a simulation run in the direction of the destination. When the run has been started, this button will be displayed as , and when selected, it will cause it to take place at high speed.
- : Move to the destination.

Edit : Displays the [EDIT ROUTE PREVIEW] screen.



To next Dest. or WP : Stops at the destination or the next way point.
To next POI : Stops at a point of interest which has been set up on the route.
Delete : Delete the POI which has been selected.
POIs: Display the six POIs from Quick-POI storage. When one of these is selected, it will be displayed on the map; furthermore, Others can be selected to display items other than shown here. For more details, refer to page 19.

→ RETURN

Address Book

●You can, edit, or delete any marked point.

Before Steps MENU → select Address Book

Memory Point Storage

Memory Point Confirmation and Modification

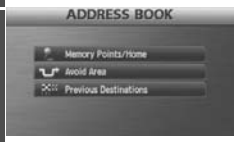
Preset Destinations or Home storage

Memory Point Deletion

All Memory Point Deletion

Displays Icons at Memory Points

Open the [ADDRESS BOOK]



→ **Select** Memory Points/Home →

- Add
- List
- Delete
- Delete all
- **Show all icon** On or Off

Set a memory point using your preferred method.

Select a memory point to be modified

- Icon : Allows the display icon to be selected. Page 1 and 2 contain standard icons, whereas the With Sound page contains icons which also playback sounds. (With direction icon function) The beep alert only activates when the vehicle approaches to within about 500 m of the memory point from the set direction.
- Name : Allows the name to be changed. When editing has been completed, select OK. Furthermore, select On to display names on the map, or Off if these names are not to be displayed.
- Position : Allows memory points to be checked and modified on the map screen. → OK
- Telephone : Allows the telephone number to be modified. When editing has been completed, select OK.

Select a memory point to be stored in Preset Destinations or Home.

Sort : The order of the displayed list can be changed.

Category :Allows the storage category to be changed. Select the button corresponding to the new category.

Del. :Press the Del. button to clear the category previously set.

- Home : Changes the category to Home
- Categories can be registered using the preset destination buttons (1 to 5).

Select a memory point to be deleted.

Yes

No : Cancel the deletion.

Yes

No : Cancel the deletion.

Address Book

Before Steps MENU → select Address Book

Avoid Area Storage

Avoid Area Confirmation and Modification

Avoid Area Deletion

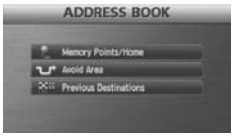
All Avoid Area Deletion

Category Name Modification

Previous Destination Deletion

All Previous Destination Deletion

Open the [ADDRESS BOOK]

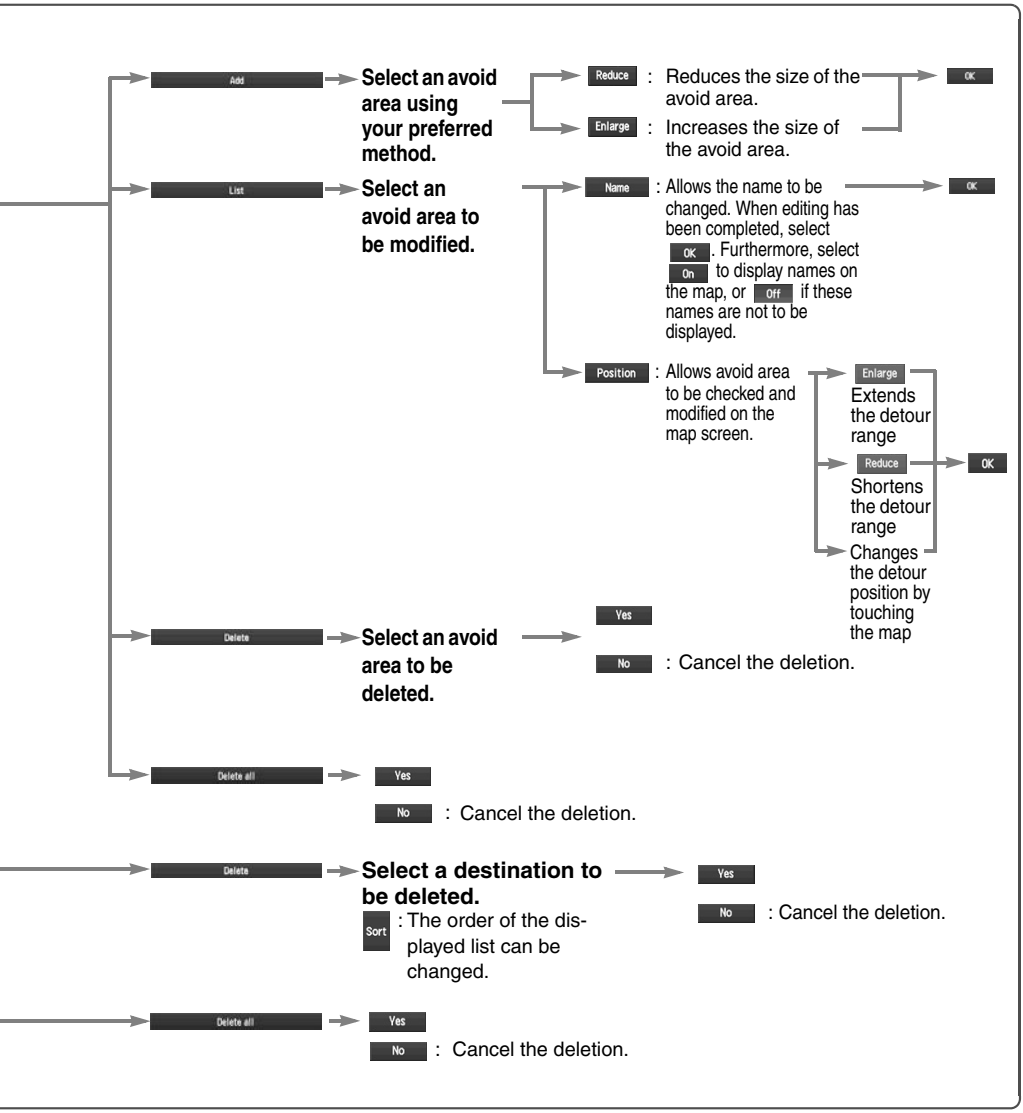


Select

Avoid Area

Select

Previous Destinations


Add
Select an avoid area using your preferred method.
Reduce : Reduces the size of the avoid area.
Enlarge : Increases the size of the avoid area.
OK
List
Select an avoid area to be modified.
Name : Allows the name to be changed. When editing has been completed, select OK. Furthermore, select On to display names on the map, or Off if these names are not to be displayed.
OK
Position : Allows avoid area to be checked and modified on the map screen.
Enlarge
Extends the detour range
Reduce
Shortens the detour range
Changes the detour position by touching the map
OK
Delete
Select an avoid area to be deleted.
Yes
No : Cancel the deletion.
Delete all
Yes
No : Cancel the deletion.
Delete
Select a destination to be deleted.
Sort : The order of the displayed list can be changed.
Yes
No : Cancel the deletion.
Delete all
Yes
No : Cancel the deletion.

Voice Recognition

The voice recognition or the Bluetooth Hands-free system can be activated by pressing the voice recognition/hands free switch on the steering wheel. The target operation in each mode (status) differs depending on whether the switch is pressed with a short or long press. For details, refer to the following switch operation list. (☞ page 52)

●Bluetooth Hands-Free Outline
By connecting a Bluetooth equipped mobile telephone to the hands-free unit equipped on the vehicle, making and receiving calls are possible.
For details, refer to the "Bluetooth Hands-Free" in the owner's manual.

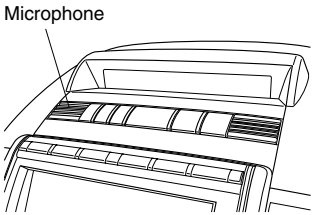
●Voice Recognition Outline
Voice control can be carried out by simply pressing the voice recognition/hands free switch and using a voice command (☞ page 53) spoken into the microphone.

Voice Recognition Structure

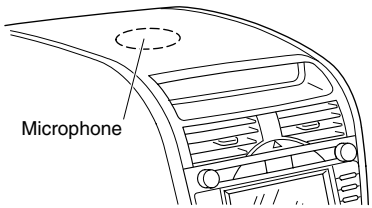
● Microphone surface

Voice entry recognition.

Mazda5



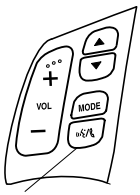
Mazda RX-8



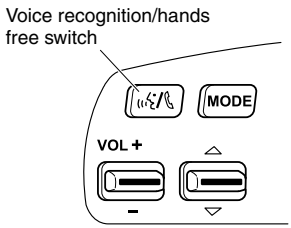
● Voice recognition/hands free switch on the steering wheel switch

Use for switching to voice recognition or Bluetooth Hands-free.

Mazda5



Mazda RX-8



Note

If there is no setting for the Bluetooth Hands-Free system, the TEL commands (Phone/ Telephone) are not available.

Select the Language

Set up the language in advance.
Voice entry recognition.

1 **Press MENU**

2 **select** Navigation Setup →

select Language → **select**

3 **Select your preferred language from the list.**

Note

To return to current position screen, press **MAP**.

Voice Recognition Basic Usage Pattern

1 **Press the voice recognition/hands free switch on the steering wheel switch with a short press while the system is in standby mode.**

2 **Speak the desired voice command.**

Cancel Voice Recognition

1 **Long press the voice recognition/hands free switch on the steering wheel switch during navigation voice recognition.**

Note

After the navigation system has been set, voice recognition needs approximately 2 minutes for activation on preparation. Wait momentarily.

Switch Operation List

Mode (status)	Switch operation	Target operation
Standby	Short press	Voice recognition activated (All command-waiting)
	Long press	Bluetooth hands-free voice recognition activated (Short-cut operation). For details, refer to the "Bluetooth Hands Free" in the owner's manual.
During navigation voice recognition	Short press	Voice recognition interrupted.
	Long press	Voice recognition ended.
During TEL voice recognition (No call)	Short press	Voice recognition interrupted.
	Long press	Voice recognition ended.
During TEL voice recognition (During a call)	Short press	Voice recognition interrupted.
	Long press	Voice recognition stopped, returns to call.
During call	Short press	Call ended.
	Long press	Call ended.
Call received from user A	Short press	Call accepted.
	Long press	Call rejected.
During call with user A	Short press	Voice recognition interrupted.
	Long press	Call ended.
Call received from user B during call with user A	Short press	User B call accepted, user A put on hold.
	Long press	User B call rejected.
During call with user A and user B on hold	Short press	Switches to user B, user A put on hold.
	Long press	Switches to user B, call with user A ended.
During call with user B and user A on hold	Short press	Switches to user A, user B put on hold.
	Long press	Switches to user A, user B call ended.

Avoiding Voice Recognition Errors.

Read the notes listed below to allow the Voice Recognition function to recognize your voice properly.

- Speak a voice command clearly.
- Keep yourself in a safe driving position. Do not face or approach the microphone to make a voice command recognizable.
  Voice recognition may fail to recognize your command due to voice tone. If this happens, change the tone of your voice by speaking more loudly and clearly.
- Keep the inside of the vehicle quiet when making a voice command. Your command may be compromised by noises made by people, blinkers, the horn, vehicle vibration, and noises from outside the vehicle.
- Use the language you selected in voice recognition.

Voice Recognition Command

The following voice commands can be used with voice control.

SHORTCUT COMMANDS
[Show] CURRENT (Position/Location)
[Show] MAP
[Show] list
Set
Other
REPEAT [Voice] [Guidance]
CANCEL
MAP OPERATION COMMANDS
ZOOM IN
ZOOM OUT
ZOOM IN MAXIMUM
ZOOM OUT MAXIMUM
RIGHT [SCREEN] MAP ZOOM IN
RIGHT [SCREEN] MAP ZOOM OUT
RIGHT [Screen] MAP (Zoom In Maximum/Minimum Scale)
RIGHT [Screen] MAP (Zoom Out Maximum/Maximum Scale)
[Change to/Show] NORTH UP [Mode]
[Change to/Show] HEADING UP [Mode]
[Change] MAP DIRECTION
RIGHT [SCREEN] MAP [Change to / Show] NORTH UP [Mode]
RIGHT [SCREEN] MAP [Change to / Show] HEADING UP [Mode]
RIGHT [SCREEN] MAP [Change] MAP DIRECTION
[Change to] DUAL MAP [Mode]
[Change to] SINGLE MAP [Mode]
(Store/Mark/Memory) [This Point]
POI DISPLAY COMMANDS
POI OFF
(Automobile Club / *Triple A)
GAS [Station]
(Car Park / Parking [Lot / Garage])
AUTO SERVICE [and Maintenance]
ATM
BANK
(Town / City) CENTER

(Convention / Exhibition) CENTER
COURT HOUSE
GOVERNMENT (Offices / Office)
(University / Higher Education / College)
HOSPITAL
LIBRARY
(Park / Parks) and RECREATION
POLICE STATION
SCHOOL
AMUSEMENT PARK
CASINO
GOLF COURSE
HISTORICAL MONUMENT
MARINA
MUSEUM
(Ski Resort / Skiing)
(Sports Complex / Stadium)
PERFORMING ARTS
TOURIST ATTRACTION
TOURIST INFORMATION
WINERY
([Show] Restaurant / I'm Hungry)
AMERICAN (Restaurant / Food)
CHINESE (Restaurant / Food)
CONTINENTAL (Restaurant / Food)
FAST FOOD [Restaurant]
FRENCH (Restaurant / Food)
ITALIAN (Restaurant / Food)
JAPANESE (Restaurant / Food)
MEXICAN (Restaurant / Food)
SEAFOOD [Restaurant]
THAI (Restaurant / Food)
OTHER (Restaurant / Food)
GROCERY STORE
SHOPPING MALL
AIRPORT
BUS STATION
FERRY TERMINAL
HOTEL
RENTAL CAR AGENCY

REST AREA
TRAIN STATION
BUSINESS FACILITY
HAMLET
DESTINATION OPERATION COMMANDS
[Go] HOME
[Add to] WAYPOINT
[Go to/Previous] STARTING POINT
[Go to] PREVIOUS DESTINATION
[Go to] PRESET DESTINATION [Number] 1
[Go to] PRESET DESTINATION [Number] 2
[Go to] PRESET DESTINATION [Number] 3
[Go to] PRESET DESTINATION [Number] 4
[Go to] PRESET DESTINATION [Number] 5
CANCEL
GUIDANCE COMMANDS
LOUDER
SOFTER
[Show] (Whole/Entire/Display) ROUTE [Map]
[Show] NEXT WAY POINT [Map]
SHOW FIRST WAY POINT [Map]
SHOW SECOND WAY POINT [Map]
SHOW THIRD WAY POINT [Map]
SHOW FOURTH WAY POINT [Map]
SHOW FIFTH WAY POINT [Map]
SHOW DESTINATION [Map]
(Delete/Cancel) NEXT WAY POINT
YES
NO
(Delete/Cancel) DESTINATION
(Delete/Cancel) ALL WAY POINTS AND DESTINATION
VOICE GUIDANCE OFF
VOICE GUIDANCE ON
QUICK
ALTERNATIVE
SHORT
DETOUR
DETOUR (Entire/Whole) ROUTE

( ): Say any one of the commands separated by a / (slash) within this type of parentheses.
[]: Recognizes without saying the command in "[]"
"/": Recognizes when saying either commands before and after "/"
*Triple A stands for AAA. If the command is not spoken as indicated (Triple A), the system will not recognize the command.

[Change to] ARROW (Guide/Guidance)
[Change to] TURN LIST [Guide/Guidance/Mode]
GUIDANCE COMMAND
[Change to] Mini Arrow [Guide/ Guidance/Mode]
[Change to] Freeway [Information] On
[Change to] Freeway [Information] Off
[Change to] Junction Detail On
[Change to] Junction Detail Off
NEAREST POI DISPLAY COMMANDS
Nearest (Automobile Club / *Triple A)
Nearest Gas [Station]
Nearest (Car Park / Parking [Lot / Garage])
Nearest Auto Service [and Maintenance]
Nearest ATM
Nearest Bank
Nearest (Town Center / City Center)
Nearest (Exhibition / Convention) Center
Nearest Court House
Nearest Government offices
Nearest (University / Higher Education [Institute] / College)
Nearest Hospital
Nearest Library
Nearest (Park / Parks) and Recreation [Facility]
Nearest Police Station
Nearest School
Nearest Amusement Park
Nearest Casino
Nearest Golf course
Nearest Historical Monument
Nearest Marina
Nearest Museum
Nearest (Ski resort / Skiing facility)
Nearest (Sports Complex / Stadium)
Nearest (Performing Arts [Venue] / Theater)
Nearest Tourist attraction
Nearest Tourist information
Nearest Winery
Nearest Restaurant
Nearest American (Restaurant / Food)
Nearest Chinese (Restaurant / Food)
Nearest Continental (Restaurant / Food)
Nearest Fast Food [Restaurant]

Nearest French (Restaurant / Food)
Nearest Italian (Restaurant / Food)
Nearest Japanese (Restaurant / Food)
Nearest Mexican (Restaurant / Food)
Nearest Seafood [Restaurant]
Nearest Thai (Restaurant / Food)
Nearest Other (Restaurant / Food)
Nearest Grocery Store
Nearest Shopping Mall
Nearest Airport
Nearest Bus station
Nearest Ferry Terminal
Nearest Hotel
Nearest Rental Car Agency
Nearest Rest Area
Nearest Train Station
Nearest Business Facility
Nearest Hamlet
AUDIO COMMANDS
Radio
AM[radio]
FM [radio]
SIRIUS | Satellite
(Disc | CD | CD changer)
Audio [on | off]
AUX1 | Auxiliary1
AUX2 | Auxiliary2
Seek up
Seek down
Type up
Type down
Track up | Next track
Track down
Previous track
Folder up
Folder down
Disc up | Next disc
Disc down | Previous disc
TEL COMMANDS
(Phone / Telephone)

( ): Say any one of the commands separated by a / (slash) within this type of parentheses.
[]: Recognizes without saying the command in "[]"
"/": Recognizes when saying either commands before and after "/"
*Triple A stands for AAA. If the command is not spoken as indicated (Triple A), the system will not recognize the command.

Volume Adjustment

You can adjust the volume control for the voice guidance.

Before Steps MENU → select Volume

Open the [VOLUME] screen

1 **Select the appropriate button to set the volume to between 1 (minimum) and 7 (maximum).**

Off :Sound output will be muted.

2 **Press the MAP button to return to the current vehicle position screen.**

Precautions/System Performance

Voice Guidance

Warnings

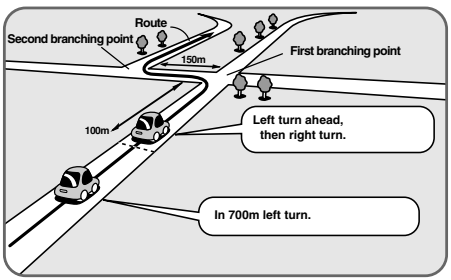
- The navigation system is just a support system for the driver. The driver should always pay attention to the traffic situation to safely make decisions. You may be unable at times to arrive at your destination due to out-of-date information on a map disc. You should be especially careful when selecting an urgent destination such as a hospital or a police station.
- Your route may sometimes include roads that are not open to vehicles or are closed due to traffic regulations. Please comply with the local traffic regulations.
- Do not change the settings and destination locations while driving. Minimize the time spent viewing the monitor screen and listening to the voice guidance while driving. Operating the system will distract the driver from looking ahead of the vehicle and may cause an accident. Always stop the vehicle in a safe location and use the parking brake before operating the system.

Voice guidance has the following functions:

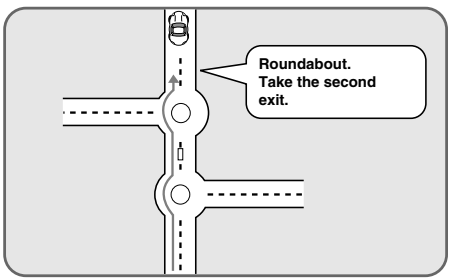
■ Intersection guidance

- The system voice announces the distance to an upcoming turn and the turning direction.
  ➡ This guidance function is automatic. Therefore, you do not have to set it, and it cannot be disabled.

- The system vocally announces the distance to an upcoming highway branching point or junction.

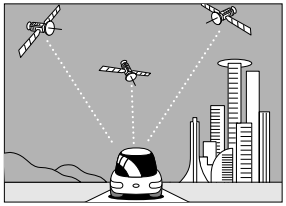


When two intersections are close together, the voice guidance may be late.



When two roundabouts are close together, the voice guidance for the second may be late.

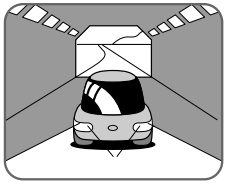
GPS (Global Positioning System)



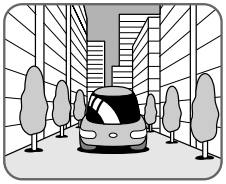
GPS is a position detecting system utilizing the signals from GPS satellites deployed by the U.S. Department of Defense. The Mobile Navigation System uses input from three or more satellites and calculates the vehicle position based on the principle of triangulation.
The positioning accuracy of the system corresponds to the error display of the GPS which is from about 30 to 200 meters.

- If you are using the system for the first time, or if you have not used it for some time, it takes about 5 minutes (or about 2 minutes in open areas) to calculate your vehicle's position.

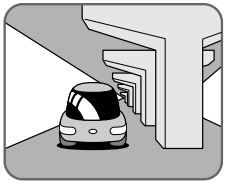
■ GPS signal reception is poor in the following places



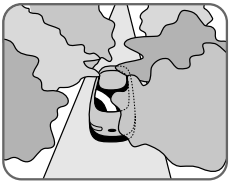
In tunnels



Among high-rise buildings



Under elevated roads



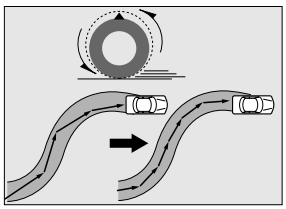
In wooded areas

- The GPS satellites are controlled by the U.S. Defense Department, which may intentionally lower positioning accuracy. In such cases, there may be vehicle position deviations.
- There may be vehicle position deviations for some time until GPS signals are received after switching on the ignition.

Map Matching

This function compares your vehicle's tracking data with the road data on the map disc, applies dead reckoning to determine the road you are driving on, and displays your vehicle on that road on the map.

- Intelligent map matching addresses the following problems to achieve high accuracy in vehicle positioning.



Position Correction for Elevated Roads
Position accuracy is improved by detecting if the vehicle is running on or under an elevated road.

Position Correction for Parking Garages
Position accuracy is improved by detecting if the vehicle is driving in an elevated or underground parking garage.

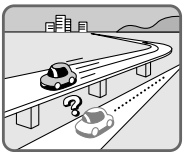
High-precision Gyrosensor
A gyro detects turns with an accuracy of 0.05° per second. Combined with a speed sensor, it enables the system to display the current vehicle position even where GPS signals may be blocked.

- Using a spare tire in place of the regular one may cause vehicle position deviations.
- Any difference between the direction which your vehicle actually travels and that shown on the map is automatically eliminated by azimuth correction.

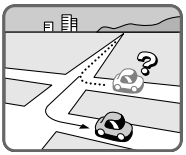
Precautions/System Performance

Positioning Accuracy

In the following situations, your vehicle position may not be displayed correctly on the map. But, as you keep driving, your vehicle position will be automatically corrected utilizing map matching and GPS data.

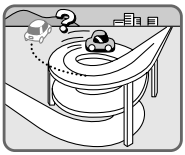


Running on an elevated road

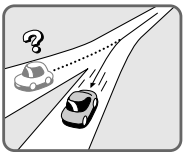


Making a turn after driving on a long straight road

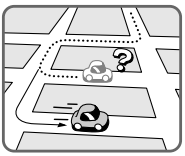
Running on a steep mountain road



Running on a spiral road

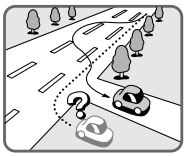


Entering an intersection where a road branches off at a small angle

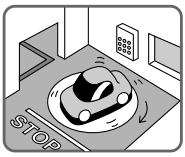


Running on gridiron layout of roads

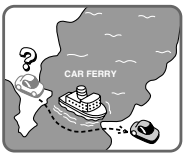
Running on a slippery road with tire chains



Snaking on a wide road



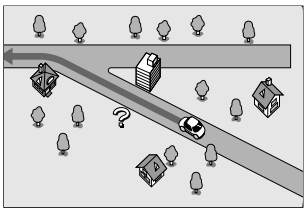
When your vehicle is on a turntable with the ignition switched off



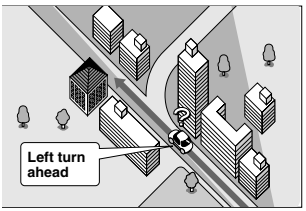
After getting off a ferryboat or vehicle train

Route Guide

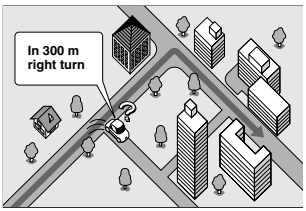
Although you may encounter the following problems in route guide, there is nothing wrong with the system.



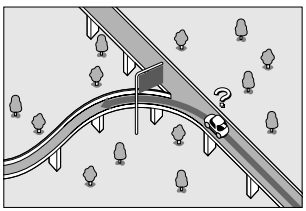
For certain intersection shapes, the upcoming turn or the name of the intersection may not be announced.



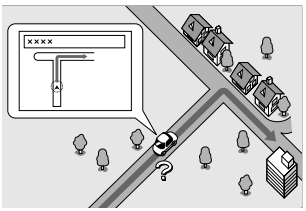
For certain intersection shapes, you may be prompted to turn right or left when you should actually stay on the same road.



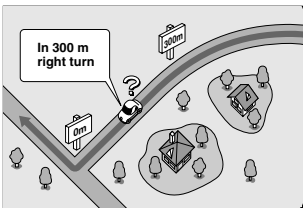
Voice guidance for the planned route may continue even after you have deviated from that route such as having turned too early.



Some points where the road divides on highways or toll roads may not be displayed or announced.



The Intersection Zoom Map may not always agree with the actual shape of the intersection.



The announced distance to an upcoming turn may differ slightly from reality.

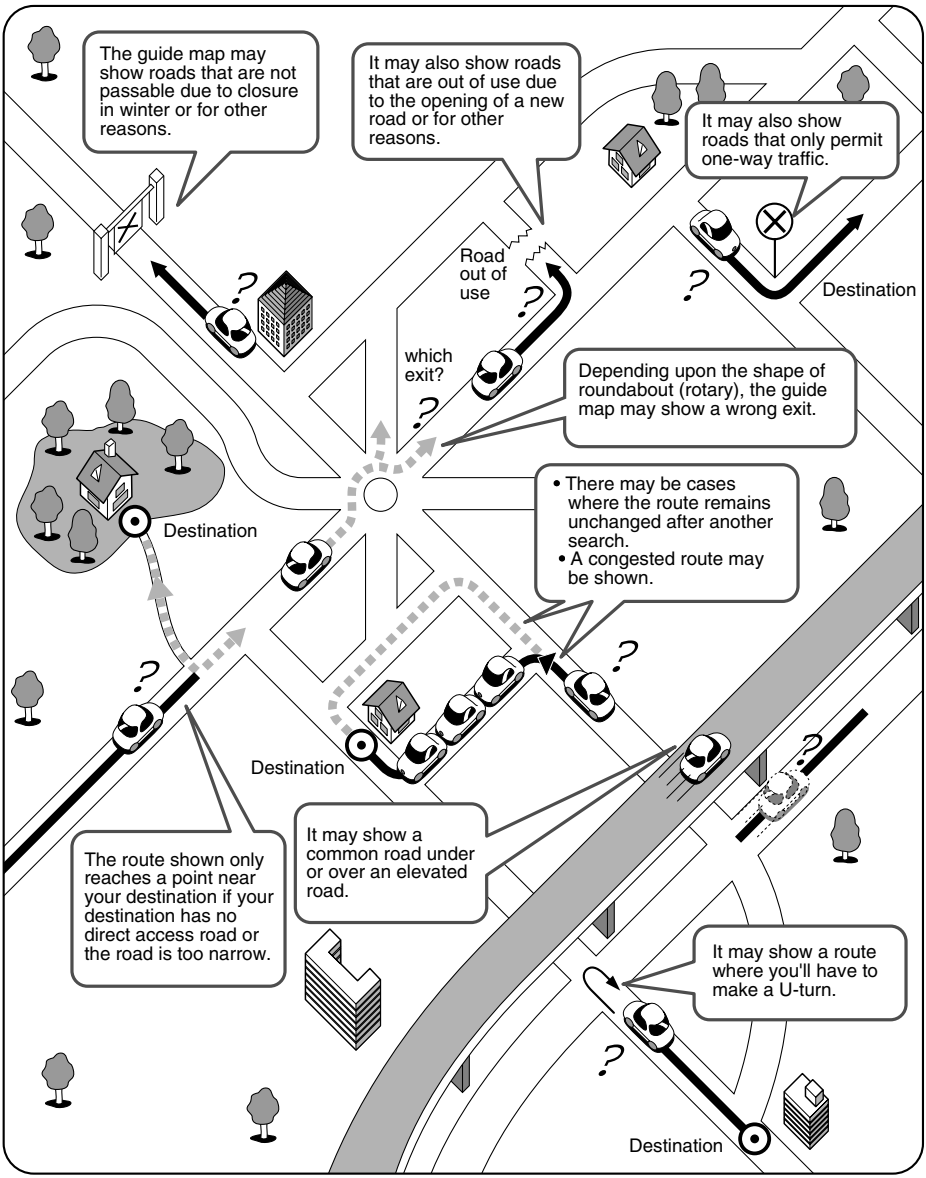
If necessary

Warning

The navigation system is just a support system for the driver. The driver should always pay attention to the traffic situation to safely make decisions. You may be unable to arrive at your destination due to out-of-date information on a map disc. You should be especially careful when selecting an urgent destination such as a hospital or a police station.

Route Search

Although you may encounter the following problems in a route search, there is nothing wrong with the system.


The guide map may show roads that are not passable due to closure in winter or for other reasons.
It may also show roads that are out of use due to the opening of a new road or for other reasons.
It may also show roads that only permit one-way traffic.
Road out of use
Destination
which exit?
Depending upon the shape of roundabout (rotary), the guide map may show a wrong exit.
Destination
• There may be cases where the route remains unchanged after another search.
• A congested route may be shown.
Destination
The route shown only reaches a point near your destination if your destination has no direct access road or the road is too narrow.
It may show a common road under or over an elevated road.
It may show a route where you'll have to make a U-turn.
Destination

Troubleshooting

Verification First

Note

There may be some problems due to operational errors or mistakes. Please read this manual again and verify that there really is a problem before calling an Authorized Mazda Dealer to ask for repair services.

Symptom	Check point
No picture	●Check if a fuse has blown. ➡ Consult an Expert Dealer, we recommend an Authorized Mazda Dealer.
Display does not open or close	●Check if the voltage level of the vehicle battery is low. ➡ Recharge the battery or change batteries.
The vehicle position is not correct	●Check if the vehicle position changed when ACC was set to OFF. When, for example, • The vehicle was transported by a ferry boat. • The vehicle was rotated on a turn table in a parking lot. • The vehicle was transported by a tow track or other such vehicle. ➡ Drive the vehicle for a while where you are receiving GPS signals.

Symptom	Check point
No GPS symbols are displayed	●GPS signals may not be received because of obstructions. After moving the vehicle away from obstructions, the GPS signals can be received.
The vehicle position is not displayed	●Check if the mode is set to the current position screen. ➡ Press **MAP**
No voice guidance	●Check if the volume control for the voice guidance has been turned off. ●Check if the vehicle is off the route. ➡ Repeat the route search while checking the route guide screen. ●Check if you are driving the vehicle in the wrong direction on the route. ➡ Repeat the route search checking the direction of the destination.
Buttons on the remote control do not beep	●Check if [Beep] is set to [Off] (☞ page 27).

Troubleshooting

Error Messages

Error message	Solution
Please insert a MAP DVD.	●The disc is not installed. ➡ Check if the disc is installed. If installed, check if the installed disc is correct.
MAP DVD-Read Error	●The disc is wet, dirty, scratched, or upside down, or the disc cannot be played with this unit or the incorrect disc is installed. ➡ Eject the disc and check it.
The disc installed is not a MAP DVD.	

Maintenance

Care of the Product

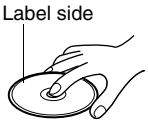
■ **Cleaning this product**
Use a dry, soft cloth to wipe it.

■ **Cautions for cleaning**
Never use solvents such as benzene and thinners, they could mar the surface of the unit.

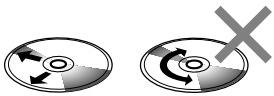
■ **Map disc**
If you require the latest map disc, consult an Expert Dealer, we recommend an Authorized Mazda Dealer.

Handling and Care of Map Discs

■ **How to hold the disc**
- Do not touch the underside of the disc.
- Do not scratch the disc.
- Do not bend the disc.
- When not in use, keep the disc in the case.



■ **Disc Cleaning**
- Use a dry, soft cloth to wipe from the center outward.



■ **Do not leave discs in the following places:**
- Direct sunlight
- Near car heaters
- In dirty, dusty and damp areas
- On seats and dashboards

MEMO

Contents

Audio system

■ Audio Operation

● Operating Tips for Audio system 66
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● Beep sound and voice guidance restrictions while using Bluetooth Hands-Free 72

● Power/Volume/Sound Controls 73
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(Sound quality adjustment), (Volume balance adjustment),
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(AudioPilot®2 (Bose® Sound System-equipped model)),
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(Folder search (during MP3 CD playback)), (Music scan), (Repeat play),
(Random play), (Audio sound adjustment)

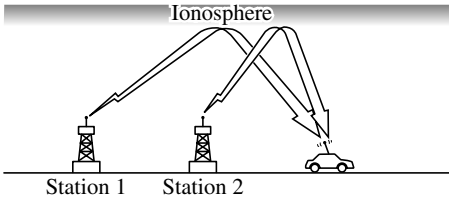
Audio Operation

Operating Tips for Audio system

■ Radio Reception

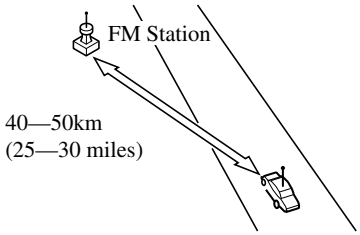
AM characteristics

AM signals bend around such things as buildings or mountains and bounce off the ionosphere. Therefore, they can reach longer distances than FM signals. Because of this, two stations may sometimes be picked up on the same frequency at the same time.



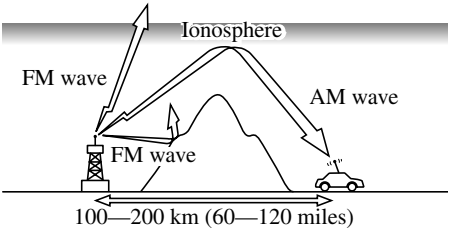
FM characteristics

An FM broadcast range is usually about 40–50 km (25–30 miles) from the source. Because of extra coding needed to break the sound into two channels, stereo FM has even less range than monaural (non-stereo) FM.



Signals from an FM transmitter are similar to beams of light because they do not bend around corners, but they do reflect.

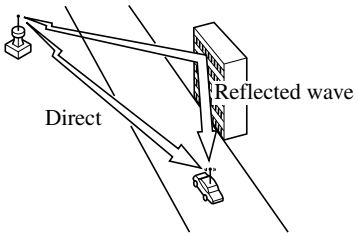
Unlike AM signals, FM signals cannot travel beyond the horizon. Therefore, FM stations cannot be received at the great distances possible with AM reception.



Atmospheric conditions can also affect FM reception. High humidity will cause poor reception. However, cloudy days may provide better reception than clear days.

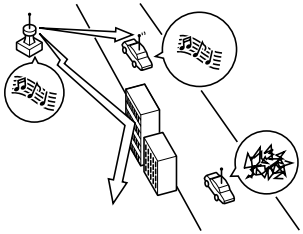
Multipath noise

Since FM signals can be reflected by obstructions, it is possible to receive both the direct signal and the reflected signal at the same time. This causes a slight delay in reception and may be heard as a broken sound or a distortion. This problem may also be encountered when in close proximity to the transmitter.



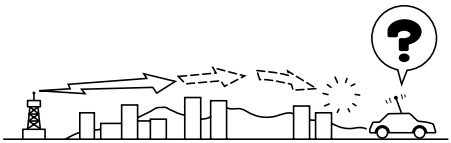
Flutter/Skip noise

Signals from an FM transmitter move in straight lines and become weak in valleys or between tall buildings, mountains, and other obstacles. When a vehicle passes through such an area, the reception conditions may change suddenly, resulting in annoying noise.



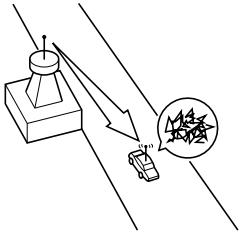
Weak signal noise

In suburban areas, broadcast signals become weak because of distance from the transmitter. Reception in such fringe areas is characterized by sound breakup.



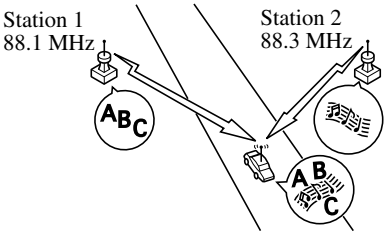
Strong signal noise

This occurs very close to a transmitter tower. The broadcast signals are extremely strong, so the result is noise and sound breakup at the radio receiver.



Station drift noise

When a vehicle reaches the area of two strong stations broadcasting at similar frequencies, the original station may be temporarily lost and the second station picked up. At this time there will be some noise from this disturbance.



■ Operating Tips for In-Dash CD Changer

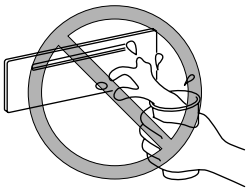
Condensation phenomenon

Immediately after turning on the heater when the vehicle is cold, the CD or optical components (prism and lens) in the In-dash CD changer may become clouded with condensation. At this time, the CD will eject immediately when placed in the unit. A clouded CD can be corrected simply by wiping it with a soft cloth. Clouded optical components will clear naturally in about an hour. Wait for normal operation to return before attempting to use the unit.

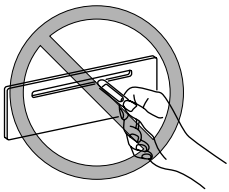
Handling the In-dash CD changer

The following precautions should be observed.

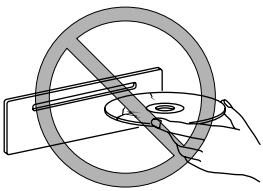
- Do not spill any liquid on the audio system.



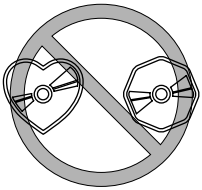
- Do not insert any objects, other than CDs, into the slot.



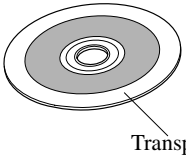
- The CD revolves at high speed within the unit. Defective (cracked or badly bent) CDs should never be used.



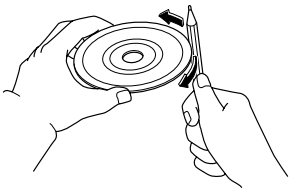
- Do not use non-conventional discs such as heart-shaped, octagonal discs, etc. The disc may not eject resulting in a malfunction.



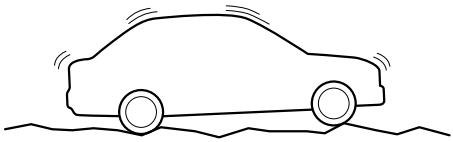
- If the memory portion of the CD is transparent or translucent, do not use the disc.



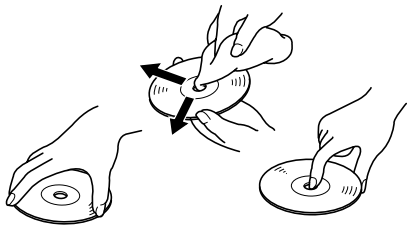
- A new CD may have rough edges on its inner and outer perimeters. If a disc with rough edges is used, proper setting will not be possible and the In-dash CD changer will not play the CD. In addition, the disc may not eject resulting in a malfunction. Remove the rough edges in advance by using a ball-point pen or pencil as shown below. To remove the rough edges, rub the side of the pen or pencil against the inner and outer perimeter of the CD.



- When driving over uneven surfaces, the sound may jump.



- Use discs that have been legitimately produced. If illegally-copied discs such as pirated discs are used, the system may not operate properly.
- Be sure never to touch the signal surface when handling the CDs. Pick up a CD by grasping the outer edge or the edge of the hole and the outer edge.



- Do not stick paper or tape on the CD. Avoid scratching the reverse side (the side without a label). The disc may not eject resulting in a malfunction.
- Dust, finger smudges, and dirt can decrease the amount of light reflected from the signal surface, thus affecting sound quality. If the CD should become soiled, gently wipe it with a soft cloth from the center of the CD to the edge.
- Do not use record sprays, antistatic agents, or household spray cleaners. Volatile chemicals such as benzine and thinner can also damage the surface of the CD and must not be used. Anything that can damage, warp, or fog plastic should never be used to clean CDs.
- Insert discs one by one. If two discs are inserted at the same time, the system may not operate properly.
- The In-dash CD changer ejects the CD if the CD is inserted upside down. Also dirty and/or defective CDs may be ejected.
- Do not insert any disc with a peel-off seal affixed to it.

Handling the In-dash CD changer

- This unit may not be able to play certain CD-R/CD-RWs made using a computer or music CD recorder due to disc characteristics, scratches, smudges, dirt, etc., or due to dust or condensation on the lens inside the unit.
- Storing CDs in the vehicle exposed to direct sunlight or high temperature may damage the CD-R/CD-RWs, and make them unplayable.
- CD-R/CD-RW exceeding 700 MB cannot be played.
- This unit may not be able to play certain discs made using a computer due to the application (writing software) setting used. (For details, consult the store where the application was purchased.)
- It is possible that certain text data, such as titles, recorded on a CD-R/CD-RW may not be displayed when musical data (CD-DA) is playing.
- The period from when a CD-RW is inserted to when it begins playing is longer than a normal CD or CD-R.
- Completely read the instruction manual and cautions for CD-R/CD-RWs.
- Do not use discs with cellophane tape adhering, partially peeled off labels, or adhesive material exuding from the edges of the CD label. Also, do not use discs with a commercially-available CD-R label affixed. The disc may not eject resulting in a malfunction.

■ Operating tips for MP3

NOTE

Supply of this product only conveys a license for private, non-commercial use and does not convey a license nor imply any right to use this product in any commercial (i.e. revenue-generating) real time broadcasting (terrestrial, satellite, cable and/or any other media), broadcasting/streaming via the Internet, intranets and/or other networks or in other electronic content distribution systems, such as pay-audio or audio-ondemand applications. An independent license for such use is required. For details, please visit http://www.mp3licensing.com.

- This audio system handles MP3 files that have been recorded on CD-R/CD-RW/CD-ROMs. Discs that have been recorded using the following formats can be played:
  - ISO 9660 level 1
  - ISO 9660 level 2
  - Joliet extended format
  - Romeo extended format
- This unit handles MP3 files conforming to the MP3 format containing both header frames and data frames.
- If a disc has both music data (CD-DA) and MP3 files, playback of the two file types differs depending on how the disc was recorded.
- Packet written discs cannot be played on this unit.
- This unit does not play CDs recorded using MP3i (MP3 interactive), MP3 PRO and RIFF MP3 formats.

⚠ CAUTION

This unit can only play MP3 files that have an MP3 file extension (.mp3) attached. Do not attach an MP3 file extension to any other type file as it could cause noise to be emitted or a malfunction in the unit.

Specialized glossary

MP3
Abbreviation for “MPEG Audio Layer 3”.
A technical standard for audio compression as decided by an ISO (International Organization for Standardization) MPEG working group.
Use of MP3 allows for audio data to be compressed to approximately a tenth of the source data size.

ISO 9660
An international standard for logical formatting of CD-ROM files and folders.
It is divided into three separate levels based on differences in file naming procedures, data configuration and other characteristics.

Bit rate
Refers to the volume of data per second, expressed in bps (bits per second).
Generally, the larger the number of the transfer bit rate when compressing an MP3 file, the more information regarding musical reproduction it carries, and therefore the better the sound quality.

Packet writing
A general term for the method, similar to that used for floppy discs or hard drives, of recording the required file in a single increment on a CD-R and similar.

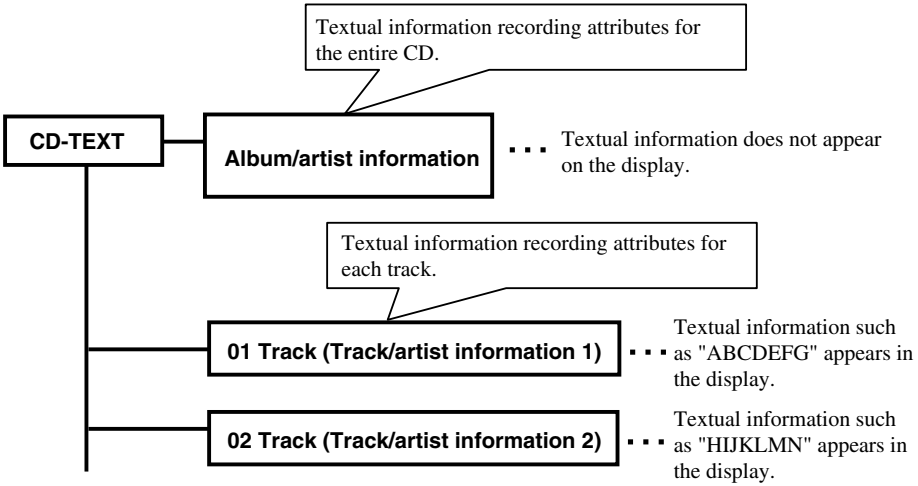
■CD-TEXT

Music CDs are available in which separate music data including album/title names, music name, artist name, and other textual information can be recorded. The data standard for recording textual information to these kinds of music CDs is termed CD-TEXT.

There are two regions of a CD where textual information can be recorded which include regions related to the entire CD (Attributes recorded for the entire CD) and individual track regions (Attributes recorded for individual tracks).

As for this audio unit, textual information (Album/artist information), which can be recorded on individual track regions, appears on the display. Textual information (Artist and other information), which can be recorded to regions related to the entire CD, does not appear on the display.

Unless all the textual information is input in one-byte characters, a dotted line (----) will appear in place of the textual information, even if one of the characters is not a one-byte character (Two-byte character).


Textual information recording attributes for the entire CD.
CD-TEXT
Album/artist information
Textual information does not appear on the display.
Textual information recording attributes for each track.
01 Track (Track/artist information 1)
Textual information such as "ABCDEFG" appears in the display.
02 Track (Track/artist information 2)
Textual information such as "HIJKLMN" appears in the display.

Operating Tips for Display

- **Do not place any objects on the dashboard. If you drop any objects onto the dashboard or spill liquid on it, it may result in system malfunction.**
- **Be careful not to pinch your hands or fingers when the liquid crystal display is closed.**
- **Do not open/close the liquid crystal display manually. It may damage the equipment.**

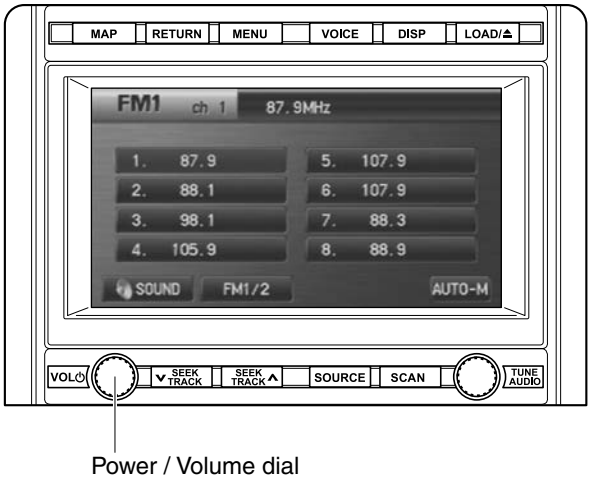
- The liquid crystal display may not open if the power supply had been interrupted due to the vehicle battery being disconnected.
- If the liquid crystal display stays open/closed (or partly opened) and does not move when the liquid crystal display is pressed, switch the ignition switch off and then on again. Then try the open/close operation again. If the liquid crystal display still does not move, contact an Authorized Mazda Dealer.

Beep sound and voice guidance restrictions while using Bluetooth Hands-Free

The beep sound and voice guidance related to the audio operation are not heard while Bluetooth Hands-Free is being used.

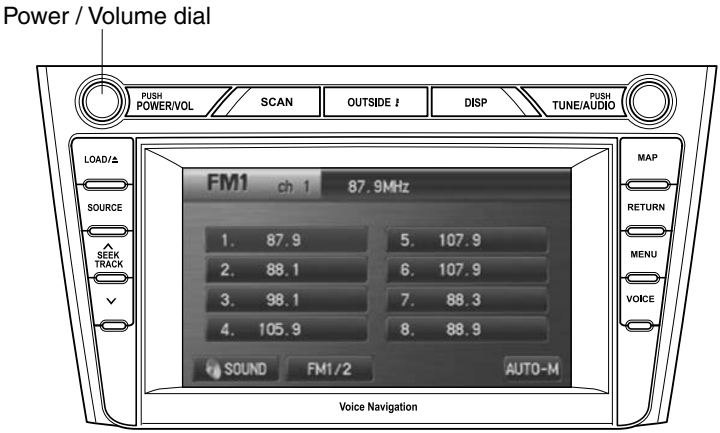
Power/Volume/Sound Controls

Mazda5



Power / Volume dial

Mazda RX-8



■ Power ON/OFF

Switch the ignition switch to the ACC or ON position.

Press the power/volume dial to turn the audio system on.
Press the power/volume dial again to turn the audio system off.

Note

To prevent the battery from being discharged, do not leave the audio system on for a long period of time when the engine is not running.

■ Volume adjustment

To adjust the volume, turn the power/volume dial.
Turn the power/volume dial to the right to increase volume, to the left to decrease it.

■ Audio sound adjustment

1.Press the SOURCE button.

2.Select the desired on-screen button corresponding to one of the following modes.

- on-screen button : Audio mode (AM band)
- on-screen button : Audio mode (FM band)
- on-screen button : Satellite radio
- on-screen button : CD mode
- , on-screen button : Image and Sound playback is possible using a portable audio player connected to an external input terminal.*
- on-screen button : iPod mode

*The external input terminal is not equipped on your vehicle because it is not standard equipment.

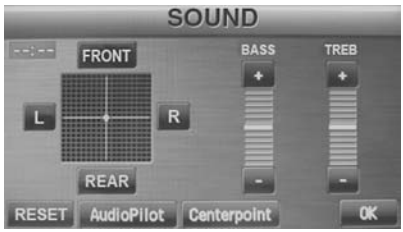
3.Press the TUNE dial to display the sound adjustment screen.

4.Select the SOUND on -screen button to display the sound adjustment screen.

Standard audio-equipped model

(Mazda5 only)

Bose® Sound System-equipped model



(Mazda RX-8 only)

■ Sound quality adjustment

TREB (treble sound)

Select the + on-screen button to increase treble, and − to decrease.

BASS (low pitch sound)

Select the + on-screen button to increase bass, and − to decrease.

■ Volume balance adjustment

Front/back volume balance

Select the FRONT on-screen button to increase the volume at the front, and REAR on-screen button to increase the volume to the back.

Left/right volume balance

Select the R on-screen button to increase the volume to the right, and L on-screen button to increase the volume to the left.

Note

- Pressing an on-screen adjustment button for 0.5 seconds or more progressively changes the adjustment range towards +/–, up/down, or left/right.
- While an adjustment button is selected in this manner, the level indicator will momentarily stop at the medium range position and a beep sound will be heard before proceeding.
- Select the RESET on-screen button to reset bass, treble, and balance.
- To return to the previous screen, select the OK on-screen button.

■ Automatic Level Control (ALC) (Standard audio-equipped model)

The automatic level control is a feature that automatically adjusts audio volume and sound quality according to the vehicle speed.
The volume increases in accordance with the increase in vehicle speed, and decreases as vehicle speed decreases.

The following four modes are available. Select the desired mode.

Indication	Enhance change
ALC OFF	No change
ALC LEVEL 1	Minimum
ALC LEVEL 2	Medium
ALC LEVEL 3	Maximum

■ AudioPilot®2 (Bose® Sound System-equipped model)

AudioPilot®2 automatically adjusts audio volume and sound quality in accordance with the level of noise entering the vehicle interior while driving. When AudioPilot®2 is turned ON, the system automatically calculates the conditions for optimum hearing of sound which may be difficult to hear depending on exterior noise.

Each time the AudioPilot on-screen button is selected, the AudioPilot®2 turns on and off.

AudioPilot on-screen button is highlighted when AudioPilot on-screen button is ON, and not highlighted when OFF.

AudioPilot®2 is a registered trademark of Bose Corporation.

■ Centerpoint® (Bose® Sound System-equipped model)

Centerpoint® offers you the experience of 5.1 channel surround sound in your vehicle even with your conventional 2 channel sound.

Each time the Centerpoint on-screen button is selected, the Centerpoint® turns on and off.

Centerpoint on-screen button is highlighted when Centerpoint on-screen button is ON, and not highlighted when OFF.

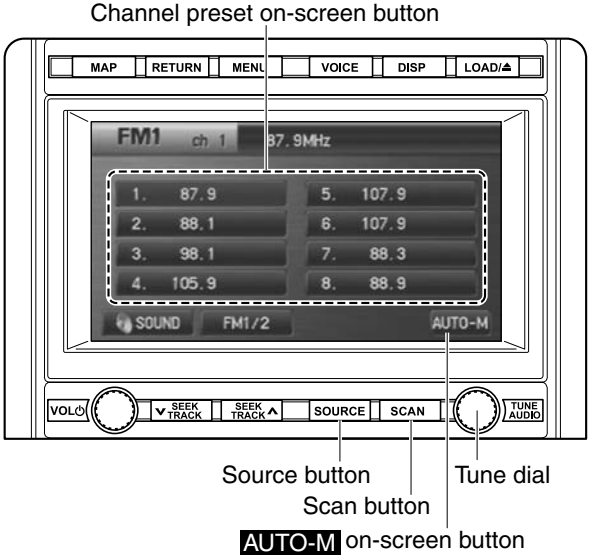
If any source invalid with Centerpoint on-screen button is selected, Centerpoint on-screen button is displayed in gray and cannot be switched.

Note

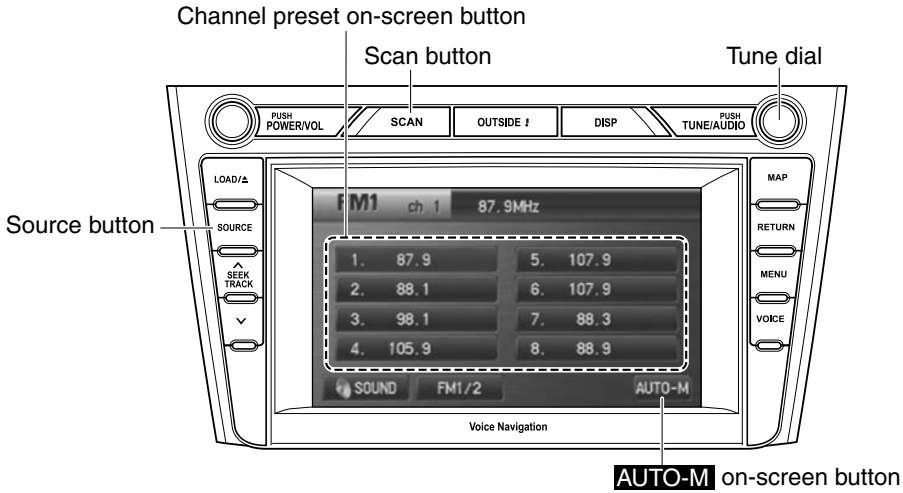
- Centerpoint® does not work with AM/FM/SIRIUS/AUX1.
- Centerpoint® operates only with a 2-channel stereo CD. Poor sound quality in the audio signal playback could result from playing highly compressed audio such as MP3 with Centerpoint® operating.

Centerpoint® is a registered trademark of Bose Corporation.

Mazda5



Mazda RX-8



■ Radio ON

1.Press the SOURCE button.

2.Select the AM or FM on-screen button to turn the radio on.

■Band selection

Choose AM by pressing the on-screen button and FM by pressing the on-screen button.

The selected mode will be indicated. If FM stereo is being received, STEREO will be displayed.

■Tuning

The radio has the following tuning methods: Manual, Seek, Scan, Preset channel, and Auto memory tuning. The easiest way to tune stations is to set them on preset channels.

Note

- If the FM broadcast signal becomes weak, reception automatically changes from STEREO to MONO for reduced noise, and the STEREO indicator will go out.
- Press the MAP button to switch to the map screen.
- If the power supply is interrupted (fuse blows or the battery is disconnected), the preset channels will be erased.

■Manual tuning

Turning the TUNE dial will change the frequency higher or lower.

■Seek tuning

Pressing and holding the SEEK/TRACK button (∧, ∨) will cause the tuner to seek a higher or lower frequency automatically.

Note

If you continue to press and hold the button, the frequency will continue changing without stopping.

■Scan tuning

Press the SCAN button to automatically sample strong stations.
Scanning stops at each station for about 5 seconds. To hold a station, press the SCAN button again during this interval.

■Preset channel tuning

The 8 preset channels can be used to store 8 AM and 16 FM stations.

1. To set a channel first select AM, FM1, or FM2. Tune to the desired station.
2. Press the TUNE dial.
3. Select any channel preset on-screen button for about 2 seconds until a beep sound is heard. The selected preset channel number and station frequency will be displayed. The station is now held in the memory.
4. Repeat this operation for the other stations and bands you want to store. To tune one in the memory, select AM, FM1, or FM2 and then press its channel preset button. The station frequency and the channel number will be displayed.

Note

If the power supply is interrupted (fuse blows or the battery is disconnected), the preset channels will be erased.

■ Auto memory tuning

This is especially useful when driving in an area where the local radio stations are not known. Additional AM/FM stations can be stored without disturbing the previously set channels.

Select and hold the AUTO-M on-screen button for about 2 seconds until a beep sound is heard; the system will automatically scan and temporarily store up to 8 stations with the strongest frequencies in each selected band in that area.

■ Audio Sound Adjustment

Refer to “Power/Volume/Sound Controls” (☞ page 73).

■ Satellite Radio (SAT)

Mazda5

Vehicles equipped with the separately purchased SIRIUS digital satellite radio unit have the ability to receive channels of digital quality programming coast to coast via satellite. For information on use, read the Satellite Radio Kit manual accompanying the SIRIUS digital satellite radio unit. A subscription to SIRIUS digital satellite radio service is required (available in the U.S. - Except Alaska and Hawaii) to enable this feature once the separately purchased SIRIUS digital satellite radio unit has been installed. For subscription and channel information, or for digital satellite radio technical issues, contact SIRIUS directly at:

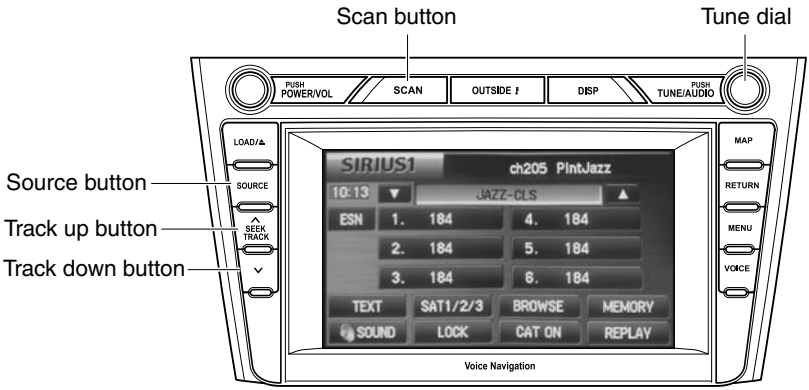
- Visiting SIRIUS on the web at www.sirius.com
- Subscribing to Sirius customer care, available 24 hours a day, 7 days a week.
- Calling 1-888-539-SIRI(7474)
- E-mail at: customercare@siriusradio.com
- Writing to: SIRIUS XM RADIO
  1221 Avenue of the Americas
  New York, NY 10020
  Attention: Customer Care

Include your Sirius Radio ESN (Electronic Serial Number) when subscribing or requesting technical assistance. See the Satellite Radio Kit manual accompanying the SIRIUS unit for complete satellite radio activation procedures and information on how to display the ESN#.

Mazda RX-8

Refer to “Operating the Satellite Radio (Mazda RX-8 only)” (☞ page 79).

Operating the Satellite Radio (Mazda RX-8 only)



Used on vehicles equipped with the DLP* unit.
* DLP: Down Link Processor (SATELLITE RADIO Module)

■ What is satellite radio?

With over 130 channels, SIRIUS Satellite Radio brings you more of what you love. Get 69 channels of 100% commercial-free music, plus all your favorite sports, news, talk and entertainment. Everything worth listening to is now on SIRIUS.

100% Commercial-free Music — With music from every genre, artist-dedicated channels, live performances and more, SIRIUS is the home of 100% commercial-free music.

Live Sports Play-by-Play & Expert Talk — Hear every NFL game, every NASCAR® race and college sports coverage from over 150 schools. Plus 24/7 sports talk with channels like SIRIUS NFL Radio, SIRIUS NASCAR Radio and more.

Exclusive Entertainment and Talk — The biggest names, compelling talk, hilarious comedy. Hear Howard Stern, Martha Stewart, Jamie Foxx, Blue Collar Comedy, Playboy Radio, political talk and more.

World-class News — Stay informed with FOX, CNN, CNBC, NPR®, BBC and more. Plus local traffic and weather.

Family & Kids — Entertain the entire family with Radio Disney, Kids Place Live, Laugh USA and more.

Sign up for SIRIUS Radio today! For more information, visit www.sirius.com.
Satellite radio can be subscribed to and received in the United States. (Except Alaska and Hawaii) and Canada.

■How to Activate Satellite Radio

You must call SIRIUS to activate your service. Activation is free and takes only a few minutes.

SIRIUS service uses an ID code to identify your radio. This code is needed to activate SIRIUS service, and report any problems.

To activate you SIRIUS radio tuner, call a SIRIUS customer service specialist at 1-888-539-7474 or you can visit SIRIUS online at www.sirius.com

Please have the following information ready:

- SIRIUS ID (12-digit electronic serial no., or ESN)
- Valid credit card information (may not be required at initial sign-up)

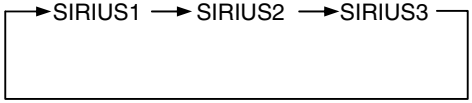
Be sure you are parked outside with a clear view of open sky, you will be instructed to turn on your radio (in SAT mode and tuned to channel 184). Activation typically takes only 2-5 minutes.

*ESN: Electronic Serial Number

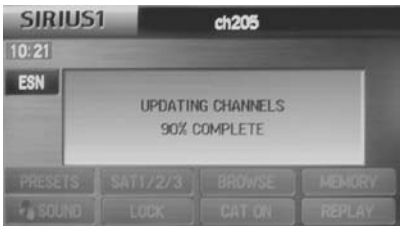
■Selecting Sirius Radio Mode

1. Press the SOURCE button.
2. Press the SAT on-screen button
   When the SAT on-screen button is pressed, it will play the last selected SIRIUS channel.

3. Each time the SAT1/2/3 on-screen button is pressed, the satellite selection changes in the order shown below.



System initializing



It may take 30 to 120 seconds for the system to start up while it is initializing or after the SIRIUS channel map has been changed.
During start up, the following will be displayed.
'UPDATING CHANNELS XX% COMPLETE' or 'UPDATING CHANNELS' appears.

When information on all channel maps is obtained and the system is ready, channel '184' is received.
When switching to a source other than Sirius radio mode, the last active channel is stored and will be the first channel accessed upon activating Sirius radio mode again.

■ Channel Selection

Using the tune dial

Turn the tune dial to select the desired channel number.

- Turn the knob clockwise to step-up the channel number.
- Turn the knob counterclockwise to step-down the channel number.

Using the track button

Press the track button with a short press to step-up (down) the channel.
When the TRACK button (UP or DOWN) is held pressed, the system will continue to step-up (down) the channel until the button is released.

■ Scanning for Subscribed Channels

Press the SCAN button to begin searching through your subscribed channels.
When the system reaches a subscribed channel it plays the channel for 5 seconds before going to the next subscribed channel. After reaching the subscribed channel with the highest number, the search resumes from the subscribed channel with the lowest number and scans forward.

Note

To search for channels in the category currently displayed, press the SCAN button when in the category mode.

■ Unsubscribed Channels

Navigation system display: 'CALL 888-539-SIRIUS TO SUBSCRIBE' is displayed.
Information display: 'CALL 888' and '539 SIRI' (Flashes alternately)

Note

When the subscription contract is canceled all of the channels, except channel 184, appear as unsubscribed.

■ Invalid Channels

When a selected channel is not broadcasting, the display indicates the following:
Navigation system display: 'INVALID CHANNEL' is displayed
Information display: 'SR (bank number) INVALID' and 'SR (bank number) CHANNEL' (Flashes alternately)

Note

If the last channel selected is no longer unavailable because of a channel update, the above indication is displayed until any other valid channel is selected.

Channel preset on-screen button

■ Preset Channel Programming

1. Select the channel you want to store.
2. Hold down the channel preset on-screen button (1-6) briefly.
   You will hear a beep sound to indicate that the channel has been stored.
3. The channel number for the channel preset on-screen button changes.

Note

Six stations can be stored in each of the SR banks 1, 2, and 3 for convenient access to your favorite stations.

■ Preset Channel Call-up

Press the channel preset on-screen button (1-6) for about 1.5 seconds.

Note

In the initial setting, all channels are preset to 184.

■ Category Mode On/Off

ON

(When doing a TUNE/SEEK within the selected category)

When the CAT ON on-screen button is pressed, 'TUNE/SEEK WITHIN SELECTED CATEGORY ONLY' appears for six seconds. 'CATEGORY' is displayed on the left side of the channel number.

OFF

(When doing a TUNE/SEEK outside of the category mode)

While in category mode, press the CAT ON on-screen button. (The on-screen button display changes to CAT OFF.)

'TUNE/SEEK AMONG ALL AVAILABLE SIRIUS CHANNELS.' appears for 6 seconds, and 'CATEGORY' is no longer displayed.

Note

Pressing the channel preset on-screen button (1-6) during category mode will exit the category mode and play the selected channel.

■Category Change

Press the category select on-screen button (▲ or ▼) and select the desired category.

●Press the ▲ button to scroll the categories upward.

●Press the ▼: to scroll the categories downward.

The channel with the lowest number within the category indicated is received.
When the channel with the highest number within the category is reached, scrolling will resume from the channel with the lowest number in the category.

■Channel Selection Within a Category

Pressing the TRACK button (UP or DOWN) moves the channel number up/down in the present category.

When the channel preset on-screen button is pressed in the category mode

When a channel preset button (1-6) is pressed while in the 'CATEGORY ON' mode, the service channel will be changed. When the button is pressed the mode switches to 'CATEGORY OFF' mode. (The same applies when pressing the SAT on-screen button.)

Press the BROWSE on-screen button

All the channels (programs) in the category are displayed.

Press the LIST CATEGORIES on-screen button.

All the categories are displayed.

■Channel Number, Channel Name, Category, Artist, Song Titles and Info Display

Press the TEXT on-screen button.

Channel name, song title, artist name and INFO are displayed.

Song title, Artist name, INFO display

- Press the ▶ on-screen button to display the last characters of the name.

To return to the display of the preset channels, press the PRESETS on-screen button.

■Programming Your Favorites into Memory

1. Press the MEMORY on-screen button.
2. 'SELECT TITLE OR ARTIST' or 'SELECT TEAM' is displayed, and the items to be registered will appear below it.
3. When one of the items is selected from the list, 'TITLE/ARTIST/TEAM STORED' will be displayed for three seconds, and the program registration is completed.

- If program registration information is not included in the program during reception, the MEMORY, TITLE, and ARTIST buttons remain grayed out.

Memory contents confirmation and setting

1. When the MEMORY SETTINGS on-screen button is pressed, 'TITLE/ARTIST/TEAM MEMORY LIST' is displayed to confirm the program registered in the memory.

- If there are four or more items registered, scroll up or down using the ▼ or ▲ on-screen button to select the desired item.
- To delete an item, select it from the list and press the DELETE on-screen button.
- Switch the SONG SEEK ON / OFF on-screen buttons according to whether the seek alert function is used.

Note

- Ten items can be registered in each of the three memory lists (TITLE/ARTIST/TEAM). If ten items are exceeded, 'TITLE/ARTIST/TEAM MEMORY FULL' is displayed and the confirmation screen will appear to inform you that the chronologically oldest program is to be overwritten.
- Ten different types of sports programs are available (NFL, NHL, NBA, MLB, Soccer, Auto Racing, College Football, College Basketball, Other). Your favorite teams can be registered in each.

■ Seek Alert

This function informs you that the registered program goes on the air except when it has already been received. (The above screen is displayed when the previously registered program ID, artist ID, or sport ID is identified.)

If there are 4 or more items in the list (4 or more registered programs are on the air simultaneously), the previous/next page is displayed by pressing the ▲ or ▼ on-screen button.
If a program name is too long to be displayed in whole, the remaining part is displayed by pressing the ▶ button.

When a desired program is selected from the list, the channel is changed to start the selected program.

When you do not select from the list, press the CANCEL on-screen button to return to its original display.

■Instant Replay

This function allows you to rewind and replay the program that you were previously or are currently listening to.

Press the REPLAY on-screen button.

When the ◄◄ on-screen button is briefly pressed (about 0.5 seconds), playback starts from the beginning of the current program.

When the ◄◄ on-screen button is pressed twice, playback starts from the beginning of the previous program.

When the ◄◄ on-screen button is pressed and held, the track rewinds in 5-second intervals while the button is being pressed. If the ◄◄ on-screen button is pressed for 10 seconds or longer, the rewind time intervals change every 10 seconds while the button is being pressed in increments of 15 seconds, 30 seconds, and 1 minute.

When the ►► on-screen button is briefly pressed (about 0.5 seconds), playback starts from the beginning of the next program.

When the ►► on-screen button is pressed and held, the track is fast-forwarded in 5-second intervals while the button is being pressed. If the ►► on-screen button is pressed for 10 seconds or longer, the fast-forward time intervals change every 10 seconds while the button is being pressed in increments of 15 seconds, 30 seconds, and 1 minute.

When the ►II on-screen button is briefly pressed, playback is temporarily stopped, or playback starts if it has been temporarily stopped.

When the CANCEL on-screen button is pressed, the instant replay mode is cancelled and returns to the current program.

Note

The instant replay mode cannot be cancelled without pressing the CANCEL on-screen button even when the display of the song playback time returns to '0:00:00'.

■Displaying the SIRIUS ID (ESN)

1. Press the ESN on-screen button.
2. A 12-digit Electronic Serial Number (ESN) for the SIRIUS tuner is displayed

■Initialization of PIN Code

If you have forgotten the registered PIN code, return the PIN code to the default '0000' by performing the following steps:

Master code input preparation

1. Press the LOCK on-screen button.
2. The screen changes to Parental Lock mode and 'INPUT PIN ----' is displayed.
3. Press the INITIALIZE on-screen button.
4. 'INPUT MASTER CODE ----' is displayed.

Master code input

5. Input the master code. (☞ page 90)
   (The master code is already set at the time of factory shipment.)

Master code input determination

6. Determine the master code which has been input by pressing the ENTER on-screen button briefly.
7. 'PIN CLEARED' appears which indicates that the master code input has been completed.
8. The PIN code is set to the default '0000' and the initialization process is completed.

Note

- If an PIN code is not input for ten seconds, the system returns to the previous screen.
- If the input code does not match the registered code, 'Wrong PIN was input. Please input PIN again.' is displayed for three seconds, and the system returns to the former display.

■Changing the PIN Code

Registered PIN code input

1. Press the LOCK on-screen button.
2. The screen changes to Parental Lock mode and 'INPUT PIN ----' is displayed.
3. Press the CHANGE on-screen button.
4. 'INPUT CURRENT PIN ----' is displayed. Input your currently registered PIN code.
Example : If the currently registered PIN code is '2323', input '2323'.

Note

The registered PIN code at the time of shipment from the factory is the default '0000'.

Confirming the currently registered PIN code

5. Confirm your currently registered PIN code by short-pressing the ENTER on-screen button.
6. If it matches with the previously registered PIN code, 'INPUT NEW PIN' is displayed.

New PIN code input

7. Input a new PIN code.
   Example: If the new PIN code is '1234', input as '1234'.

New PIN code input confirmation

8. Confirm the newly input PIN code by short-pressing the ENTER on-screen button.
9. 'PIN CHANGED' appears for three seconds to indicate that the new PIN code input is registered.

Note

- If a PIN code is not input within ten seconds, the system returns to the previous screen.
- If the input PIN code does not match the registered PIN code, 'Wrong PIN was input. Please input PIN again.' is displayed for three seconds and the system returns to the PIN code input screen.

■ Individual Channel Locking

If a channel is locked, the channel is muted.

Note

If the registered PIN code is forgotten, return the PIN code to the default '0000'.
(☞ page 88)

Locking a channel

1. Select a channel to be locked by pressing the TRACK button or turning the tune dial.
   Example: Select channel 100

Registered PIN code input preparation

2. Press the LOCK on-screen button.
3. The screen changes to Parental Lock mode and 'INPUT PIN ----' is displayed.

Registered PIN code input

4. Press the INPUT on-screen button.
5. Input the 4-digit registered PIN code.
   Example: If the registered PIN code is '2323', input '2323'.

Registered PIN code input confirmation

6. Confirm the input PIN code by pressing the ENTER on-screen button.
7. If it matches with the registered PIN code, 'LOCKED' is displayed.
8. The parental lock is activated. At this time, mute is on and no sound is heard.

Note

- If a PIN code is not input for ten seconds, the system returns to the previous screen.
- If the input PIN code does not match the registered PIN code, 'Wrong PIN was input. Please input the PIN again.' is displayed for three seconds and the system returns to the PIN code input screen.

■ Lock Cancellation

Unlocking a channel

1. Select the channel to be unlocked.

Registered PIN code input

2. Press the LOCK on-screen button.
3. Screen changes to Parental Lock mode and 'INPUT PIN ----' is displayed.
4. Press the INPUT on-screen button.
5. Input the 4-digits registered PIN code.
   Example :
   If the registered PIN code is '2323', input '2323'.

Registered PIN code input confirmation

6. Confirm the input PIN code by pressing the ENTER on-screen button.

7. If the PIN code matches the previously registered PIN code, the system returns to the normal mode.
8. The parental lock is now released. At this time, mute is off and the sound can be heard.

Note

- If an PIN code is not input for ten seconds, the system returns to the previous screen.
- If the input PIN code does not match the registered PIN code, 'Wrong PIN was input. Please input the PIN again.' is displayed for three seconds and the system returns to the PIN code input screen.

■ Master Code

The Master Code is used to initialize or re-initialize the PIN code in the event that the code is not set to '0000' and/or the personalized PIN code is not known. The initialization process resets the PIN code to '0000'. The master code can potentially defeat the intent of the security of the parental lock if it is located by persons not authorized by the owner to access certain channels.

Sirius Satellite Radio Master Code: '0913'

■ Error Signs

(1) Depending on the surrounding conditions (such as large trees, buildings, or tunnels) and special weather conditions, the reception of SIRIUS radio waves may be decreased or temporarily interrupted. 'ACQUIRING SIGNAL' may appear.

The 'ACQUIRING SIGNAL' message will clear after one of the following occurs:

1. When the , , , , or on-screen button is pressed.
2. When the weather conditions have been improved.

(2) In case of an antenna malfunction, 'ANTENNA FAIL' is displayed.
Check the satellite radio antenna (refer to the 'Antenna' in the owner's manual.), antenna cable and DLP antenna connector.

The 'ANTENNA FAIL' message will clear after the antenna connection failure has been restored.

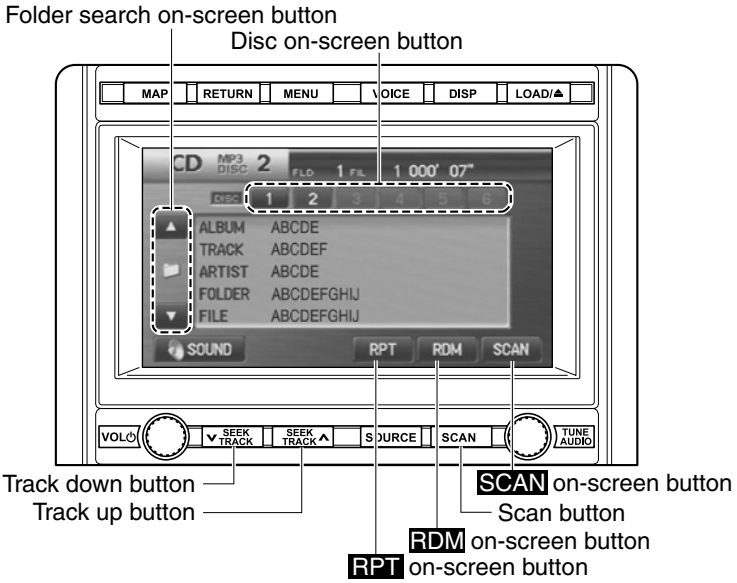
Note

If a broken DLP* unit is replaced with a new unit, cancel the license for the broken unit and make sure to carry out new registration for the replaced unit. If the license for the broken unit is not canceled, you will be charged a reception fee for both units.

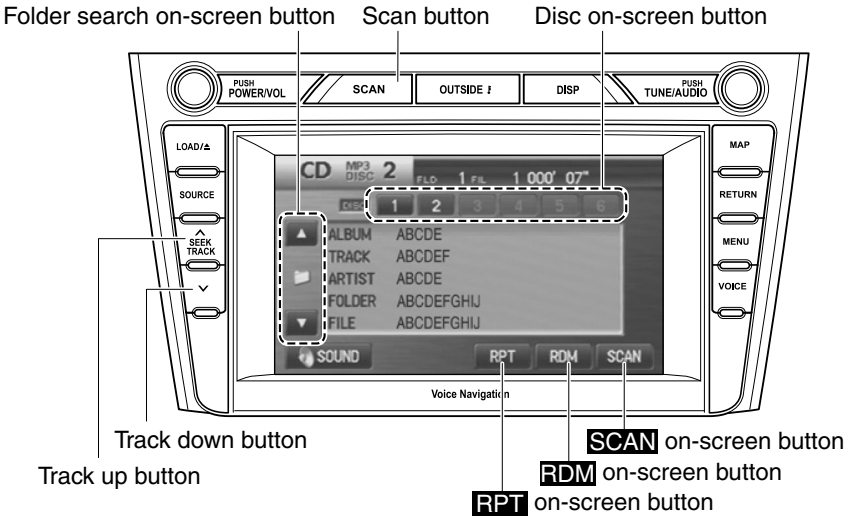
* DLP: Down Link Processor (SATELLITE RADIO Module)

Operating the In-Dash CD Changer

Mazda5



Mazda RX-8



■ Inserting the CD

The display must be open (lowered) to insert the CD.

The CD must be label-side up when inserting. The auto-loading mechanism will set the CD and begin play. There will be a short lapse before play begins while the player reads the digital signals on the CD.

Note

"IN" is displayed on the tray number for a CD that is inserted.

■ During CD playback

The album title, the track title, and the artist name will be displayed.

■ During MP3 CD playback

The album title, the track title, the folder name, the file number, and the artist name will be displayed.

Note

The CD will begin playback automatically after insertion. A CD cannot be inserted while the display reads "WAIT".

■ Normal insertion

1.Press the LOAD/▲ button.

2.Press the LOAD on-screen button lightly.
The display opens and "WAIT" is displayed.

3.Lightly insert the CD after "IN" is displayed. The CD will be inserted and played automatically after the display is closed.

Note

- A CD cannot be inserted while "WAIT" is displayed. Wait until "IN" is displayed.
- The CD loading operation cancels 15 seconds after "IN" is displayed or if the LOAD/▲ button is pressed again.

■ Inserting CDs into desired tray number

1.Press the LOAD/▲ button.

2.Press the desired tray number on-screen button, then press the LOAD on-screen button lightly.
The display opens and "WAIT" is displayed.

Note

- Selecting the tray number on-screen button twice cancels the indicated tray.
- The CD loading operation cancels if no button is pressed for about 30 seconds after the desired tray number is pressed, or if the LOAD/▲ button is pressed again.

3.Lightly insert the CD after "IN" is displayed. The CD will be inserted and played automatically after the display is closed

Note

- The CD loading operation cancels 15 seconds after the LOAD on-screen button is pressed or the LOAD/▲ button is pressed again.
- The CD cannot be inserted to the desired tray number if it is already occupied.

■ Multiple insertion

1. Press the LOAD/▲ button.
2. Press the LOAD on-screen button for 1.5 seconds or more.
   The display opens and "WAIT" is displayed.
3. Lightly insert the CD after "IN" is displayed.
4. When "IN" is displayed again, insert the next CD.
   Repeat this procedure for the number of CDs to be inserted (maximum of 6 including the CD in the tray).
   The CD will begin playback automatically after insertion and the display closes.

Note

- The CD loading operation cancels 15 seconds after "IN" is displayed, or the LOAD/▲ button is pressed again.
- Multiple discs can be loaded in succession by pressing the IN on-screen button for each CD you want to load, and then pressing the LOAD on-screen button.

■ Normal ejection

1. Press the LOAD/▲ button.
2. Press the EJECT on-screen button lightly.
3. The CD ejects after the display is opened and the desired tray number flashes.
4. The display closes automatically after the ejection is fully completed.

Note

If the CD is not removed from the slot within 15 seconds, it will be re-inserted. When this happens, or if the LOAD/▲ button is pressed again, the CD ejecting operation will be canceled.

■ Ejecting CDs from desired tray number

1. Press the LOAD/▲ button.
2. Press the desired CD tray number, then press EJECT on-screen button lightly.

Note

The CD ejecting operation cancels if the EJECT on-screen button is not pressed for about 30 seconds after the desired tray number is pressed, or if the LOAD/▲ button is pressed again.

3.The CD will be ejected automatically after the display is opened and the desired tray number flashes.

Note

- If only one CD is inserted in the tray, the display opens and the CD is ejected without pressing EJECT on-screen button.
- If the CD is not removed from the slot within 15 seconds or if the LOAD/▲ button is pressed, the CD ejecting operation will be canceled.

4.The display closes after the CD is ejected.

■ Multiple ejection

1.Press the LOAD/▲ button.

2.Press the EJECT on-screen button for 1.5 seconds or more.
The CD ejects after the display is opened and the desired tray number flashes.

3.Pull out the CD.

4.The next CD will be ejected automatically.
This operation repeats until all the CDs are taken out.

Note

- If the CD is not removed from the slot within 15 seconds or if the LOAD/▲ button is pressed, the CD ejecting operation will be canceled.
- Multiple discs can be ejected in succession by pressing the IN on-screen button for each CD you want to eject, and then pressing the EJECT on-screen button.

■ Playing

1.Press the SOURCE button.

2.Select the DISC on -screen button.

3.Select the tray number on-screen button for the CD you want to play.

The song information will be displayed during playback.

Note

Press the tune dial if the following screen is not displayed.

Music CD

MP3 CD

Note

- "-------" will be displayed for files without a file, track or other name input.
- This unit can read English (including numerals) one-byte characters.
- The displayable number of characters on each title is a maximum of 64.

(Music CDs)

- Although textual information (Track/artist information) recorded to each track appears in the display, textual information (Album/artist information) recorded for the entire CD does not appear in the display.
  For details, refer to "CD-TEXT" (☞ page 71).

Select the ▶ on-screen button if the whole title cannot be displayed at one time. The screen changes to display the rest of the characters.

■ Fast-forward/Reverse

Press and hold the SEEK/TRACK up button (∧) to advance through a track at high speed until a beep sound is heard.

Press and hold the SEEK/TRACK down button (∨) to reverse through a track at high speed until a beep sound is heard.

■ Track search

Press the SEEK/TRACK up button (∧) once to skip forward to the beginning of the next track.

Press the SEEK/TRACK down button (∨) once to skip back to the beginning of the current track.

Press the SEEK/TRACK down button (∨) during track search to skip back to the beginning of the previous track.

■ Disc search

To change the disc, press any DISC on-screen button during playback.

■ Folder search (during MP3 CD playback)

To change to the previous folder, select the ▲ on-screen button, or select the ▼ on-screen button to advance to the next folder.

■ Music scan

This feature helps to find a program by playing about the first 10 seconds of each track.

Press the SCAN on-screen button or the SCAN button during play to start scan play operation (the track number will flash).

Press the SCAN on-screen button or the SCAN button once again to cancel scan play.

Note

If the unit is left in scan, normal play will resume where scan was selected.

■ Repeat play

During music CD playback

1.Select the RPT on-screen button during playback to play the current track repeatedly.

2.Select the button again to cancel the repeat play.

During MP3 CD playback

(Track repeat)

1.Select the RPT on-screen button during playback to play the current track repeatedly.

2.To cancel the repeat play, select the button again after 3 seconds.

(Folder repeat)

1.Select the RPT on-screen button during playback, and then select the button again within 3 seconds to play the tracks in the current folder repeatedly.

2.Select the button again to cancel the repeat play.

■ Random play

Tracks are randomly selected and played.

During music CD playback

1.Select the RDM on-screen button during playback to play the tracks on the CD randomly.

2.Select the button again to cancel the random play.

During MP3 CD playback

(Folder random)

1.Select the RDM on-screen button during playback to play the tracks in the folder randomly.

2.To cancel the random play, press the button again after 3 seconds.

(DISC random)

1.Select the RDM on-screen button during playback, and then select the button again within 3 seconds to play the tracks on the CD randomly.

2.Select the button again to cancel the random play.

■ Audio sound adjustment

Refer to “Power/Volume/Sound Controls” (☞ page 73).

Contents

Others use

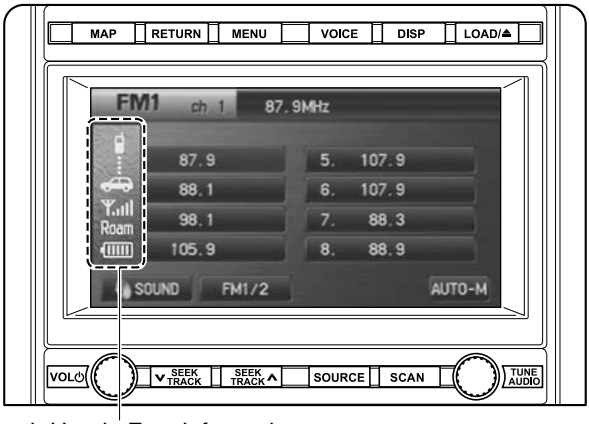
■ Bluetooth Hands-Free
● Screen display of Bluetooth Hands-Free information 98
■ Steering Switch
● Operating the Steering Switch..... 99
(Adjusting the Volume), (Changing the Source), (Seek Switch),
(Safety Certification)

Bluetooth Hands-Free

Screen display of Bluetooth Hands-Free information

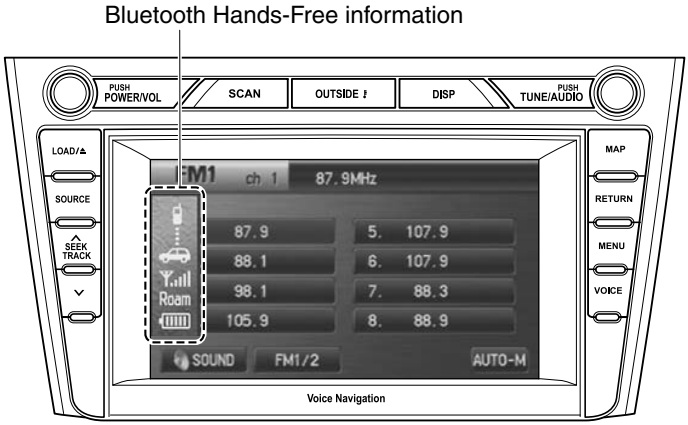
If the Bluetooth Hands-Free is operated, information such as radio wave reception conditions of the Bluetooth Hands-Free are displayed on the screen. For details, refer to the "Bluetooth Hands-Free" in the owner's manual.

Mazda5



Bluetooth Hands-Free information

Mazda RX-8



Steering Switch

Operating the Steering Switch

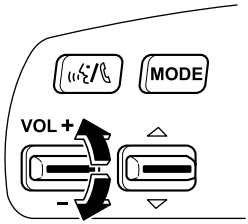
■Adjusting the Volume

To increase the volume, press up the volume switch.

To decrease the volume, press down the volume switch.

Mazda5

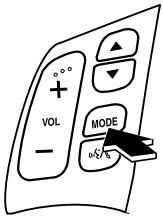
Mazda RX-8



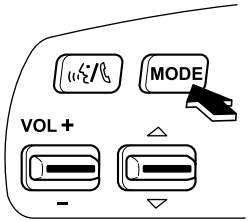
■Changing the Source

Press the mode switch (MODE) to change the audio source (FM1 radio > FM2 radio > AM radio > SIRIUS1 > SIRIUS2 > SIRIUS3 > CD changer > AUX1 > AUX2 > iPod > OFF > cyclical).

Mazda5

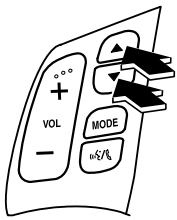


Mazda RX-8

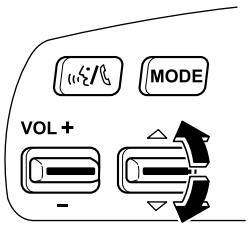


■Seek Switch

Mazda5



Mazda RX-8



When listening to the radio

Press up or press down the seek switch, the radio switches to the next/previous stored station in the order that it was stored (1-8).
Press up or press down the seek switch for about 2 seconds until a beep sound is heard to seek all usable stations at a higher or lower frequency whether programmed or not.

When listening to the satellite radio

Press the seek switch up or down, the radio switches to the next/previous stored station in the order that it was stored (1-6).
Press the seek switch up or down for about 2 seconds until a beep sound is heard to seek all usable stations at a higher or lower frequency, whether programmed or not.

When playing a CD

Press up the seek switch to skip to the next track.
Press down the seek switch to repeat the current track.

When playing an iPod

Press the seek switch up to skip to the next track.
Press the seek switch down to repeat the current track.

■ Safety Certification

This CD player is made and tested to meet exacting safety standards. It meets FCC requirements and complies with safety performance standards of the U.S. Department of Health and Human Services.

Cautions

- This CD player should not be adjusted or repaired by anyone except qualified service personnel.
  If servicing is required, contact an Authorized Mazda Dealer.
- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous laser exposure. Never operate the CD player with the top case of the unit removed.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Note

For CD player section:
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.